



成育科技股份有限公司

AMODE TECH.LTD.

# ACDNR电感系列目录 (2019年)

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# Catalog of Products

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|                                                                                                                                                                                                                                                                   | ACDNR3015TT        | 3015      | 1.0-47uH        | <a href="#">35</a> |

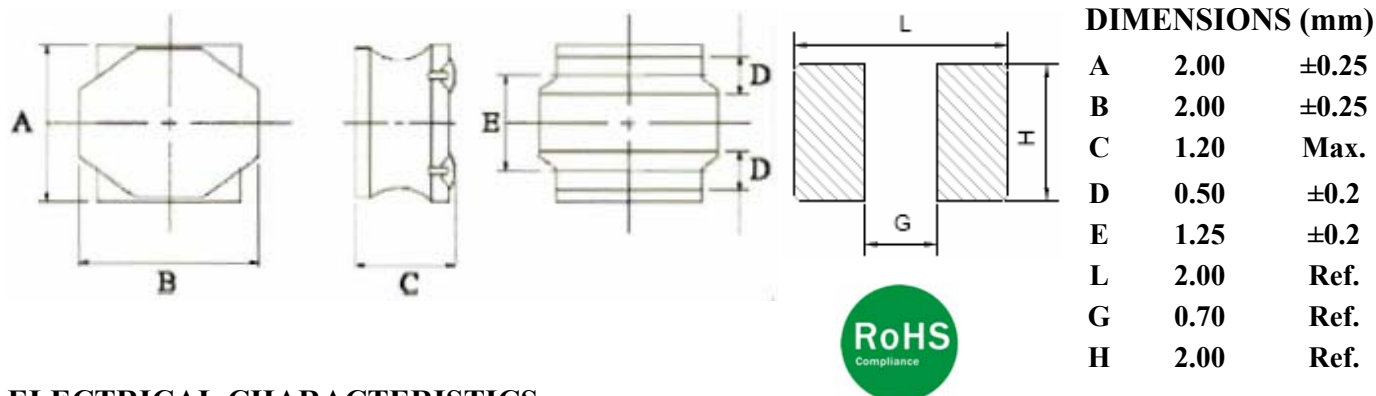
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| Model                                                                                                                                                                       | P/N             | Size (mm) | Inductance (uH) | Page               |
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## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 |      | Irms(A)<br>※2 |      | DCR<br>(mΩ) |
|-------------------|--------------------|-----------------------|---------------|------|---------------|------|-------------|
|                   |                    |                       | Typ.          | Max. | Typ.          | Max. | Max.        |
| ACDNR2012ME-1R5MT | 1.5±20%            | 1M/1V                 | 2.30          | 1.75 | 1.75          | 1.65 | 86          |

1 : CORE SIZE      Ferrite Core

2 : SOLDER          Lead-free process (focus)

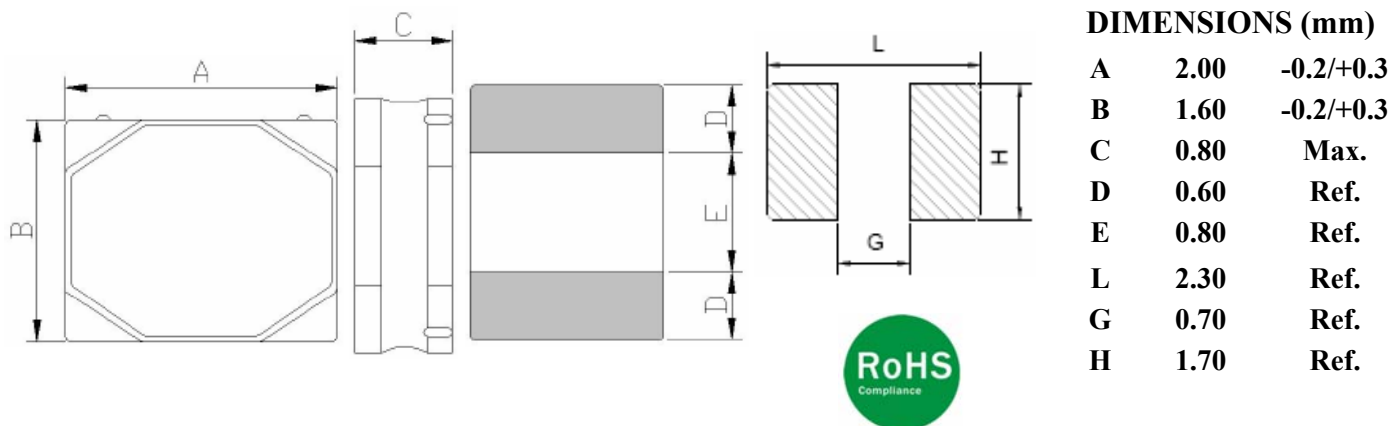
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR201608ET SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number        | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|---------------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                     |                    |                       | Typ.          | Typ.          | Typ.        | Max. |
| ACDNR201608ET-1R0MT | 1.0±20%            | 1M/1V                 | 1.40          | 1.10          | 115         | 140  |
| ACDNR201608ET-2R2MT | 2.2±20%            | 1M/1V                 | 0.95          | 0.90          | 220         | 260  |
| ACDNR201608ET-4R7MT | 4.7±20%            | 1M/1V                 | 0.50          | 0.60          | 430         | 510  |

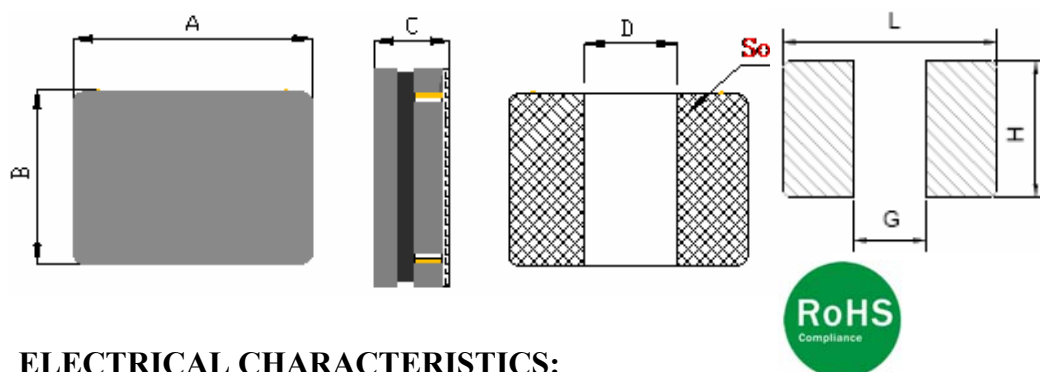
- 1 : CORE SIZE      Ferrite Core  
2 : SOLDER      Lead-free process (focus)

## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

## MECHANICAL DIMENSION :



## DIMENSIONS (mm)

|   |      |           |
|---|------|-----------|
| A | 2.00 | -0.2/+0.4 |
| B | 1.60 | -0.2/+0.4 |
| C | 1.05 | Max.      |
| D | 0.80 | Ref.      |
| L | 2.40 | Ref.      |
| G | 0.80 | Ref.      |
| H | 1.80 | Ref.      |

## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 |      | Irms(A)<br>※2 |      | DCR<br>(mΩ) |      |
|-------------------|--------------------|-----------------------|---------------|------|---------------|------|-------------|------|
|                   |                    |                       | Typ.          | Max. | Typ.          | Max. | Typ.        | Max. |
| ACDNR201610-2R2MT | 2.2±20%            | 1M/0.1V               | 1.45          | 1.26 | 1.35          | 1.20 | 145         | 174  |
| ACDNR201610-3R3MT | 3.3±20%            | 1M/0.1V               | 1.05          | 0.90 | 1.05          | 0.90 | 245         | 294  |
| ACDNR201610-4R7MT | 4.7±20%            | 1M/0.1V               | 0.85          | 0.77 | 1.00          | 0.90 | 340         | 408  |
| ACDNR201610-6R8MT | 6.8±20%            | 1M/0.1V               | 0.80          | 0.72 | 0.70          | 0.55 | 452         | 542  |
| ACDNR201610-100MT | 10±20%             | 1M/0.1V               | 0.62          | 0.55 | 0.50          | 0.45 | 700         | 840  |

1 : CORE SIZE      2.0-1.6-0.99

2 : SOLDER      Lead-free process (focus)

## REMARK :

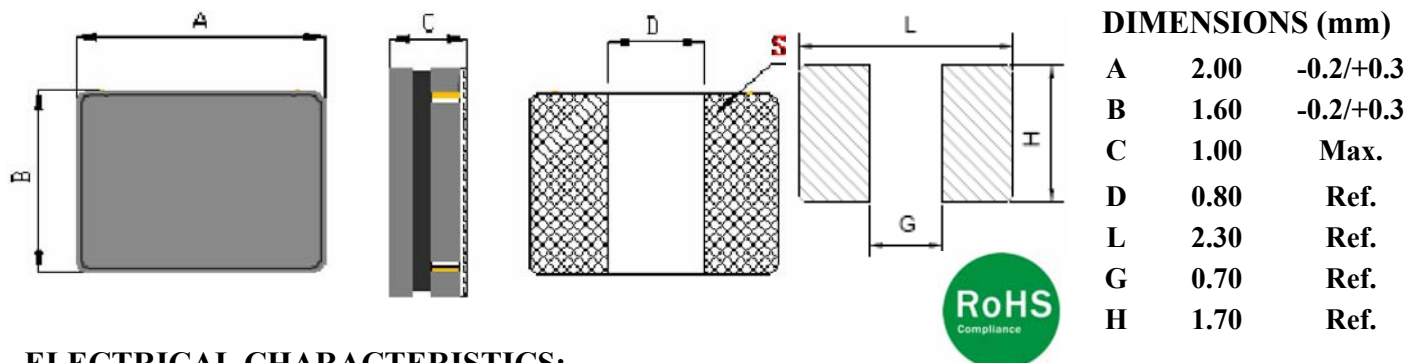
※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)



# ACDNR201610UP SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number        | Inductance (uH) | Test Freq. (Hz) | Isat(A) ※1 |      | Irms(A) ※2 |      | DCR (mΩ) |      |
|---------------------|-----------------|-----------------|------------|------|------------|------|----------|------|
|                     |                 |                 | Typ.       | Max. | Typ.       | Max. | Typ.     | Max. |
| ACDNR201610UP-R47YT | 0.47±30%        | 1M/0.1V         | 3.00       | 2.70 | 2.60       | 2.35 | 44       | 53   |
| ACDNR201610UP-R68YT | 0.68±30%        | 1M/0.1V         | 2.45       | 2.00 | 2.25       | 2.05 | 62       | 75   |
| ACDNR201610UP-1R0YT | 1.0±30%         | 1M/0.1V         | 1.95       | 1.80 | 1.75       | 1.60 | 80       | 96   |
| ACDNR201610UP-1R5YT | 1.5±30%         | 1M/0.1V         | 1.65       | 1.46 | 1.40       | 1.26 | 130      | 156  |
| ACDNR201610UP-2R2MT | 2.2±20%         | 1M/0.1V         | 1.45       | 1.26 | 1.35       | 1.20 | 145      | 174  |
| ACDNR201610UP-3R3MT | 3.3±20%         | 1M/0.1V         | 1.05       | 0.90 | 1.05       | 0.95 | 245      | 294  |
| ACDNR201610UP-4R7MT | 4.7±20%         | 1M/0.1V         | 0.85       | 0.77 | 1.00       | 0.90 | 360      | 432  |
| ACDNR201610UP-6R8MT | 6.8±20%         | 1M/0.1V         | 0.80       | 0.72 | 0.70       | 0.55 | 500      | 600  |
| ACDNR201610UP-100MT | 10±20%          | 1M/0.1V         | 0.62       | 0.55 | 0.50       | 0.45 | 720      | 864  |
| ACDNR201610UP-150MT | 15±20%          | 1M/0.1V         | 0.50       | 0.45 | 0.40       | 0.36 | 1400     | 1680 |
| ACDNR201610UP-180MT | 18±20%          | 1M/0.1V         | 0.45       | 0.40 | 0.38       | 0.34 | 1800     | 2160 |
| ACDNR201610UP-220MT | 22±20%          | 1M/0.1V         | 0.43       | 0.38 | 0.30       | 0.27 | 2000     | 2400 |

1 : CORE SIZE      Ferrite Core

2 : SOLDER      Lead-free process (focus)

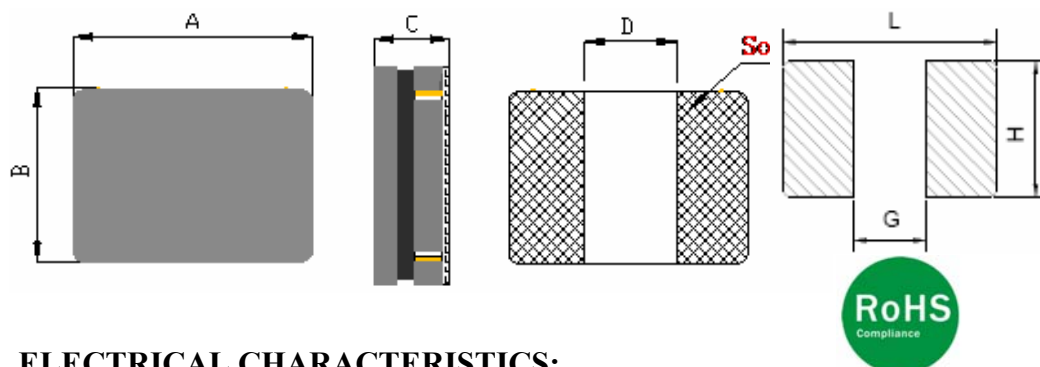
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)



## MECHANICAL DIMENSION :



## DIMENSIONS (mm)

|   |      |      |
|---|------|------|
| A | 2.00 | ±0.4 |
| B | 1.60 | ±0.4 |
| C | 1.00 | Max. |
| D | 0.40 | Ref. |
| L | 2.30 | Ref. |
| G | 0.60 | Ref. |
| H | 1.70 | Ref. |

## ELECTRICAL CHARACTERISTICS:

| Parts Number        | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |
|---------------------|--------------------|-----------------------|---------------|---------------|-------------|
|                     |                    |                       | Max.          | Max.          | Max.        |
| ACDNR201610FJ-R24MT | 0.24±20%           | 1M/1V                 | 5.60          | 4.00          | 34          |
| ACDNR201610FJ-R33MT | 0.33±20%           | 1M/1V                 | 4.80          | 3.50          | 40          |
| ACDNR201610FJ-R47MT | 0.47±20%           | 1M/1V                 | 3.60          | 3.40          | 48          |
| ACDNR201610FJ-R68MT | 0.68±20%           | 1M/1V                 | 3.00          | 2.60          | 56          |
| ACDNR201610FJ-1R0MT | 1.0±20%            | 1M/1V                 | 2.40          | 2.50          | 75          |
| ACDNR201610FJ-1R5MT | 1.5±20%            | 1M/1V                 | 1.80          | 2.15          | 120         |
| ACDNR201610FJ-2R2MT | 2.2±20%            | 1M/1V                 | 1.55          | 1.60          | 160         |
| ACDNR201610FJ-3R3MT | 3.3±20%            | 1M/1V                 | 1.25          | 1.50          | 230         |
| ACDNR201610FJ-4R7MT | 4.7±20%            | 1M/1V                 | 1.00          | 1.25          | 340         |
| ACDNR201610FJ-6R8MT | 6.8±20%            | 1M/1V                 | 0.84          | 0.97          | 540         |
| ACDNR201610FJ-100MT | 10±20%             | 1M/1V                 | 0.75          | 0.90          | 685         |

1 : CORE SIZE      Ferrite Core

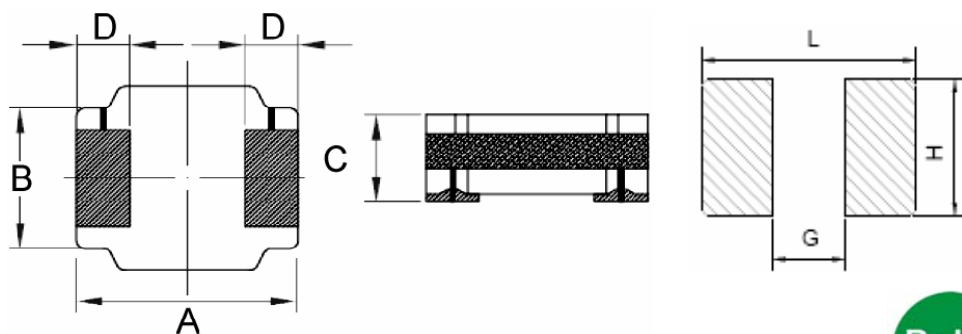
2 : SOLDER          Lead-free process (focus)

## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

## MECHANICAL DIMENSION :



## DIMENSIONS (mm)

|   |      |      |
|---|------|------|
| A | 2.00 | ±0.3 |
| B | 1.60 | ±0.3 |
| C | 1.05 | Max. |
| D | 0.60 | ±0.2 |
| L | 2.90 | Ref. |
| G | 0.90 | Ref. |
| H | 1.10 | Ref. |



## ELECTRICAL CHARACTERISTICS:

| Parts Number        | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |
|---------------------|--------------------|-----------------------|---------------|---------------|-------------|
|                     |                    |                       | Max.          | Max.          | Max.        |
| ACDNR201610BJ-R47MT | 0.47±20%           | 1M/0.1V               | 2.30          | 2.20          | 62          |
| ACDNR201610BJ-R68MT | 0.68±20%           | 1M/0.1V               | 2.00          | 1.80          | 80          |
| ACDNR201610BJ-1R0MT | 1.0±20%            | 1M/0.1V               | 1.80          | 1.70          | 96          |
| ACDNR201610BJ-1R5MT | 1.5±20%            | 1M/0.1V               | 1.40          | 1.40          | 150         |
| ACDNR201610BJ-1R8MT | 1.8±20%            | 1M/0.1V               | 1.20          | 1.20          | 175         |
| ACDNR201610BJ-2R2MT | 2.2±20%            | 1M/0.1V               | 1.10          | 1.10          | 210         |
| ACDNR201610BJ-3R3MT | 3.3±20%            | 1M/0.1V               | 0.95          | 1.00          | 300         |
| ACDNR201610BJ-4R7MT | 4.7±20%            | 1M/0.1V               | 0.76          | 0.85          | 384         |
| ACDNR201610BJ-6R8MT | 6.8±20%            | 1M/0.1V               | 0.66          | 0.67          | 770         |
| ACDNR201610BJ-8R2MT | 8.2±20%            | 1M/0.1V               | 0.63          | 0.65          | 840         |
| ACDNR201610BJ-100MT | 10±20%             | 1M/0.1V               | 0.60          | 0.65          | 950         |
| ACDNR201610BJ-150MT | 15±20%             | 1M/0.1V               | 0.45          | 0.40          | 1600        |
| ACDNR201610BJ-220MT | 22±20%             | 1M/0.1V               | 0.39          | 0.30          | 2900        |
| ACDNR201610BJ-470MT | 47±20%             | 1M/0.1V               | 0.25          | 0.25          | 4500        |

1 : CORE SIZE      Ferrite Core

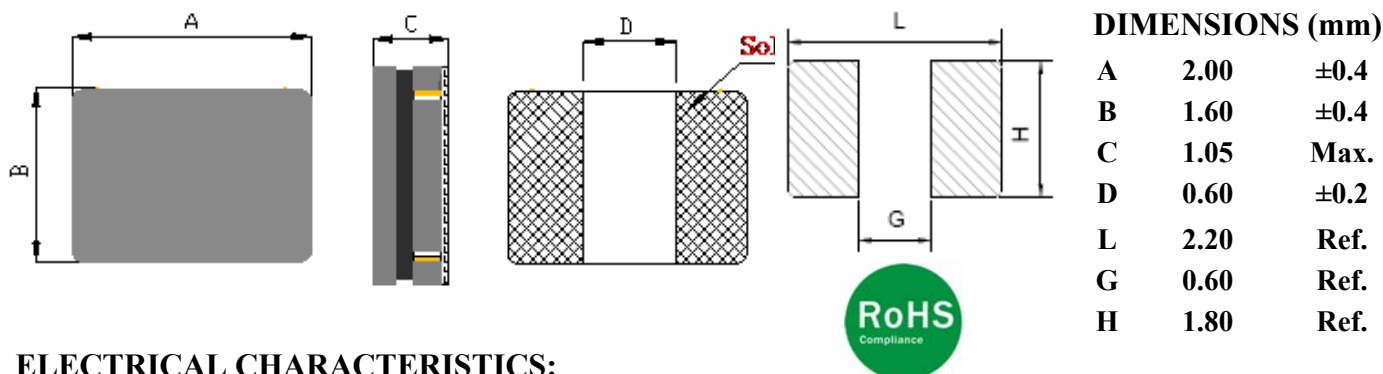
2 : SOLDER      Lead-free process (focus)

## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number       | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |
|--------------------|--------------------|-----------------------|---------------|---------------|-------------|
|                    |                    |                       | Max.          | Max.          | Max.        |
| ACDNR201610K-R47YT | 0.47±30%           | 1M/0.1V               | 2.3           | 2.35          | 59          |
| ACDNR201610K-R68YT | 0.68±30%           | 1M/0.1V               | 1.95          | 2.05          | 76          |
| ACDNR201610K-1R0YT | 1.0±30%            | 1M/0.1V               | 1.65          | 1.45          | 114         |
| ACDNR201610K-1R5YT | 1.5±30%            | 1M/0.1V               | 1.35          | 1.25          | 174         |
| ACDNR201610K-2R2MT | 2.2±20%            | 1M/0.1V               | 1.2           | 1.1           | 264         |
| ACDNR201610K-3R3MT | 3.3±20%            | 1M/0.1V               | 0.9           | 0.88          | 335         |
| ACDNR201610K-4R7MT | 4.7±20%            | 1M/0.1V               | 0.7           | 0.74          | 479         |
| ACDNR201610K-6R8MT | 6.8±20%            | 1M/0.1V               | 0.6           | 0.52          | 816         |
| ACDNR201610K-100MT | 10±20%             | 1M/0.1V               | 0.5           | 0.45          | 1020        |

1 : CORE SIZE      Ferrite Core

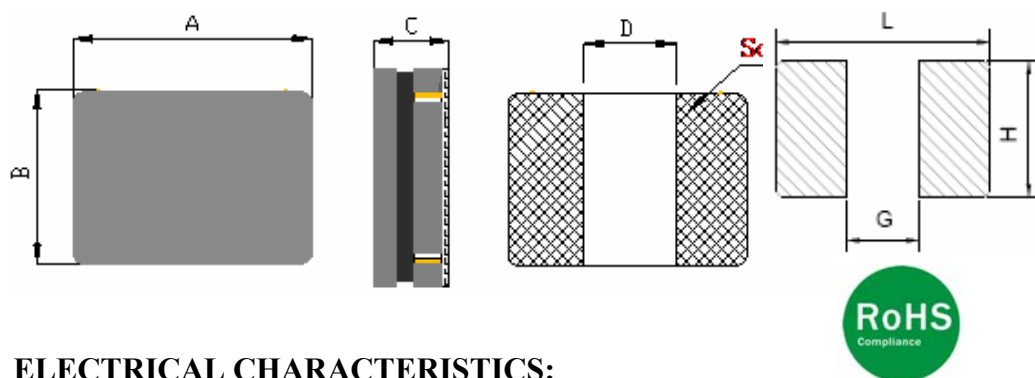
2 : SOLDER      Lead-free process (focus)

## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

## MECHANICAL DIMENSION :



## DIMENSIONS (mm)

|   |      |           |
|---|------|-----------|
| A | 2.50 | -0.2/+0.4 |
| B | 2.00 | -0.2/+0.4 |
| C | 0.80 | Max.      |
| D | 0.80 | Ref.      |
| L | 2.50 | Ref.      |
| G | 0.80 | Ref.      |
| H | 2.20 | Ref.      |

## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 |      | Irms(A)<br>※2 |      | DCR<br>(mΩ) |
|-------------------|--------------------|-----------------------|---------------|------|---------------|------|-------------|
|                   |                    |                       | Typ.          | Max. | Typ.          | Max. |             |
| ACDNR252008-2R2MT | 2.2±20%            | 1M/0.1V               | 1.40          | 1.20 | 0.95          | 0.85 | 250         |
| ACDNR252008-4R7MT | 4.7±20%            | 1M/0.1V               | 0.90          | 0.80 | 0.70          | 0.63 | 530         |
| ACDNR252008-6R8MT | 6.8±20%            | 1M/0.1V               | 0.65          | 0.75 | 0.50          | 0.55 | 708         |
| ACDNR252008-100MT | 10±20%             | 1M/0.1V               | 0.55          | 0.50 | 0.45          | 0.41 | 1070        |

1 : CORE SIZE      2.65-2.15-0.72

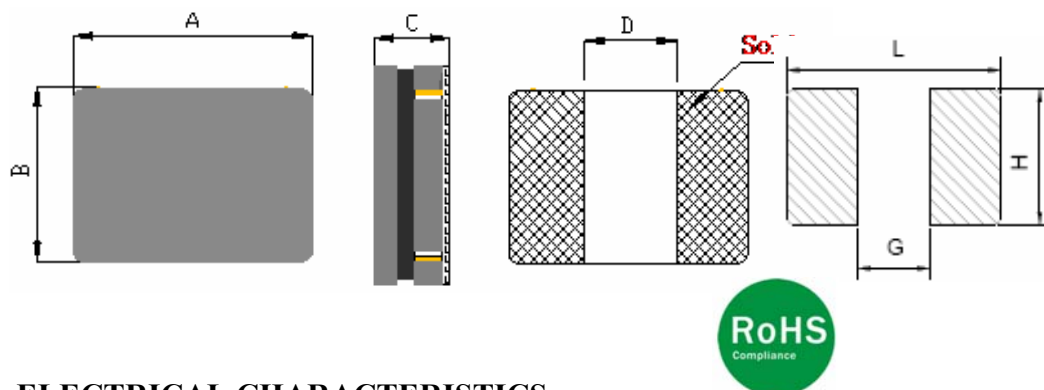
2 : SOLDER          Lead-free process (focus)

## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

## MECHANICAL DIMENSION :



## DIMENSIONS (mm)

|   |      |             |
|---|------|-------------|
| A | 2.50 | -0.2/+0.4   |
| B | 2.00 | -0.15/+0.45 |
| C | 0.80 | Max.        |
| D | 0.80 | Ref.        |
| L | 2.70 | Ref.        |
| G | 0.80 | Ref.        |
| H | 2.20 | Ref.        |

## ELECTRICAL CHARACTERISTICS:

| Parts Number        | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 |      | Irms(A)<br>※2 |      | DCR<br>(mΩ) |      |
|---------------------|--------------------|-----------------------|---------------|------|---------------|------|-------------|------|
|                     |                    |                       | Typ.          | Max. | Typ.          | Max. | Typ.        | Max. |
| ACDNR252008LP-R47MT | 0.47±20%           | 1M/0.1V               | 2.50          | 2.20 | 1.45          | 1.25 | 80          | 96   |
| ACDNR252008LP-R68MT | 0.68±20%           | 1M/0.1V               | 2.05          | 1.80 | 1.35          | 1.15 | 100         | 120  |
| ACDNR252008LP-1R0MT | 1.0±20%            | 1M/0.1V               | 1.75          | 1.50 | 1.20          | 1.05 | 120         | 145  |
| ACDNR252008LP-1R5MT | 1.5±20%            | 1M/0.1V               | 1.65          | 1.45 | 1.05          | 0.95 | 170         | 200  |
| ACDNR252008LP-2R2MT | 2.2±20%            | 1M/0.1V               | 1.40          | 1.20 | 0.95          | 0.85 | 210         | 250  |
| ACDNR252008LP-3R3MT | 3.3±20%            | 1M/0.1V               | 1.10          | 0.95 | 0.85          | 0.75 | 300         | 360  |
| ACDNR252008LP-4R7MT | 4.7±20%            | 1M/0.1V               | 0.90          | 0.80 | 0.70          | 0.63 | 400         | 480  |
| ACDNR252008LP-6R8MT | 6.8±20%            | 1M/0.1V               | 0.75          | 0.65 | 0.55          | 0.50 | 670         | 800  |
| ACDNR252008LP-100MT | 10±20%             | 1M/0.1V               | 0.55          | 0.50 | 0.45          | 0.41 | 930         | 1110 |

1 : CORE SIZE      Ferrite Core

2 : SOLDER      Lead-free process (focus)

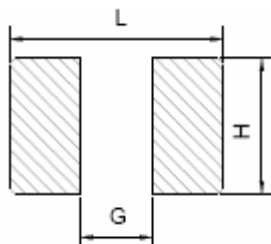
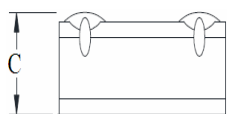
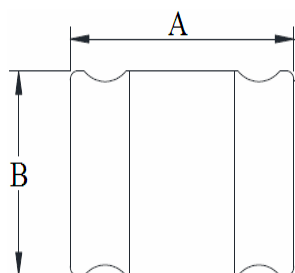
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR252008TT SERIES

## MECHANICAL DIMENSION :



## DIMENSIONS (mm)

|   |      |      |
|---|------|------|
| A | 2.50 | ±0.3 |
| B | 2.00 | ±0.3 |
| C | 0.80 | Max. |
| L | 2.60 | Ref. |
| G | 0.80 | Ref. |
| H | 2.10 | Ref. |

## ELECTRICAL CHARACTERISTICS:

| Parts Number        | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 |      | Irmss(A)<br>※2 |      | DCR<br>(mΩ) |      |
|---------------------|--------------------|-----------------------|---------------|------|----------------|------|-------------|------|
|                     |                    |                       | Typ.          | Max. | Typ.           | Max. | Typ.        | Max. |
| ACDNR252008TT-R47MT | 0.47±20%           | 1M/1V                 | 2.20          | 1.98 | 2.80           | 2.52 | 49          | 59   |
| ACDNR252008TT-1R0MT | 1.0±20%            | 1M/1V                 | 1.75          | 1.57 | 1.70           | 1.53 | 119         | 143  |
| ACDNR252008TT-2R2MT | 2.2±20%            | 1M/1V                 | 1.14          | 1.02 | 1.36           | 1.22 | 165         | 199  |
| ACDNR252008TT-4R7MT | 4.7±20%            | 1M/1V                 | 0.90          | 0.80 | 0.90           | 0.80 | 332         | 399  |
| ACDNR252008TT-6R8MT | 6.8±20%            | 1M/1V                 | 0.65          | 0.55 | 0.75           | 0.65 | 560         | 699  |
| ACDNR252008TT-100MT | 10±20%             | 1M/1V                 | 0.55          | 0.50 | 0.60           | 0.54 | 850         | 1020 |

1 : CORE SIZE      Ferrite Core

2 : SOLDER          Lead-free process (focus)

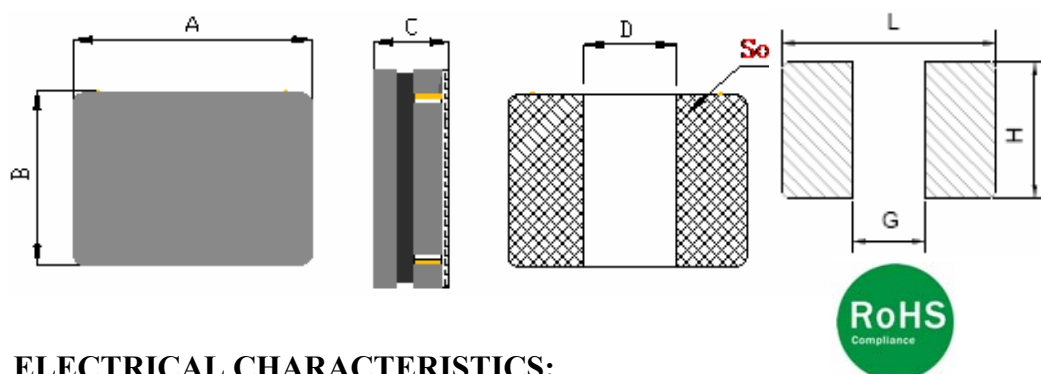
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR252010 SERIES

## MECHANICAL DIMENSION :



## DIMENSIONS (mm)

|   |      |           |
|---|------|-----------|
| A | 2.50 | -0.2/+0.4 |
| B | 2.00 | -0.2/+0.4 |
| C | 1.00 | Max.      |
| D | 0.80 | Ref.      |
| L | 2.90 | Ref.      |
| G | 0.80 | Ref.      |
| H | 2.40 | Ref.      |

## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 |      | Irms(A)<br>※2 |      | DCR<br>(mΩ) |      |
|-------------------|--------------------|-----------------------|---------------|------|---------------|------|-------------|------|
|                   |                    |                       | Typ.          | Max. | Typ.          | Max. | Typ.        | Max. |
| ACDNR252010-2R2MT | 2.2±20%            | 1M/0.1V               | 1.60          | 1.55 | 1.55          | 1.40 | 114         | 137  |
| ACDNR252010-3R3MT | 3.3±20%            | 1M/0.1V               | 1.12          | 1.05 | 1.20          | 1.08 | 222         | 267  |
| ACDNR252010-4R7MT | 4.7±20%            | 1M/0.1V               | 1.10          | 0.95 | 1.05          | 0.92 | 250         | 300  |
| ACDNR252010-6R8MT | 6.8±20%            | 1M/0.1V               | 0.95          | 0.80 | 0.85          | 0.76 | 370         | 444  |
| ACDNR252010-100MT | 10±20%             | 1M/0.1V               | 0.75          | 0.65 | 0.75          | 0.67 | 470         | 564  |
| ACDNR252010-150MT | 15±20%             | 1M/0.1V               | 0.55          | 0.45 | 0.55          | 0.50 | 830         | 996  |

1 : CORE SIZE      2.65-2.15-0.92

2 : SOLDER      Lead-free process (focus)

## REMARK :

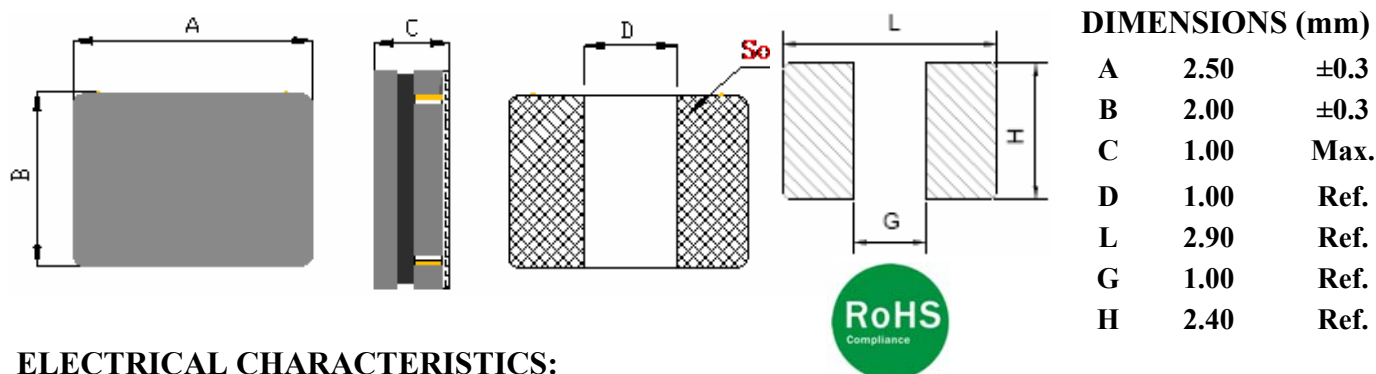
※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)



# ACDNR252010NT SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number        | Inductance (uH) | Test Freq. (Hz) | Isat(A) ※1 (30%) |      | IrmsA)※2 (ΔT=40℃) |      | DCR (mΩ) |      |
|---------------------|-----------------|-----------------|------------------|------|-------------------|------|----------|------|
|                     |                 |                 | Typ.             | Max. | Typ.              | Max. | Typ.     | Max. |
| ACDNR252010NT-R24MT | 0.24±20%        | 1M/1V           | 7.00             | 6.00 | 4.50              | 4.00 | 22       | 28   |
| ACDNR252010NT-R33MT | 0.33±20%        | 1M/1V           | 5.50             | 4.80 | 4.30              | 3.80 | 23       | 29   |
| ACDNR252010NT-R47MT | 0.47±20%        | 1M/1V           | 5.20             | 4.50 | 4.00              | 3.50 | 30       | 36   |
| ACDNR252010NT-R68MT | 0.68±20%        | 1M/1V           | 4.00             | 3.50 | 3.50              | 3.00 | 38       | 45   |
| ACDNR252010NT-1R0MT | 1.0±20%         | 1M/1V           | 3.50             | 3.10 | 3.00              | 2.50 | 53       | 63   |
| ACDNR252010NT-1R5MT | 1.5±20%         | 1M/1V           | 3.00             | 2.60 | 2.50              | 2.00 | 80       | 96   |
| ACDNR252010NT-2R2MT | 2.2±20%         | 1M/1V           | 2.20             | 1.90 | 2.10              | 1.80 | 105      | 126  |
| ACDNR252010NT-3R3MT | 3.3±20%         | 1M/1V           | 1.90             | 1.60 | 1.40              | 1.20 | 195      | 235  |
| ACDNR252010NT-4R7MT | 4.7±20%         | 1M/1V           | 1.60             | 1.30 | 1.30              | 1.10 | 230      | 276  |

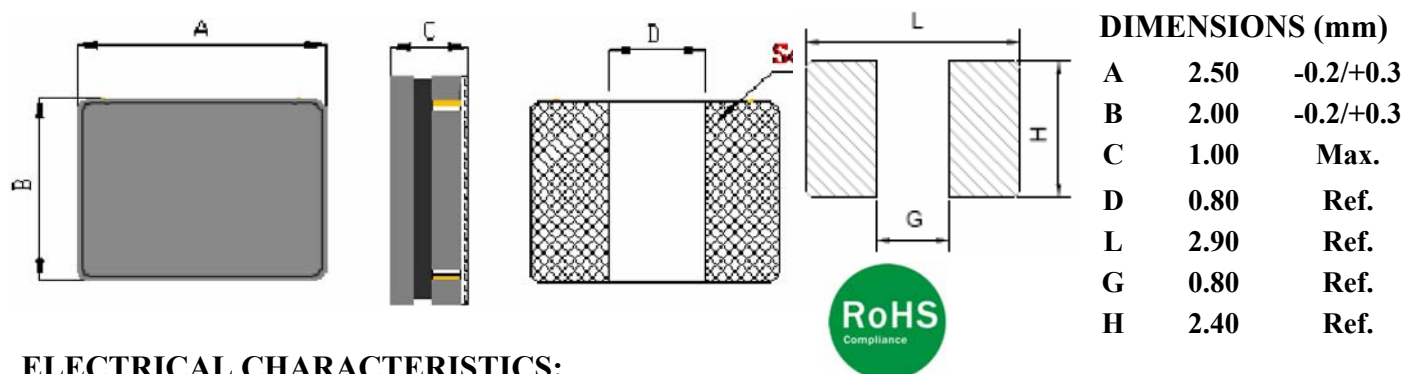
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR252010UP SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number        | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 |      | Irms(A)<br>※2 |      | DCR<br>(mΩ) |      |
|---------------------|--------------------|-----------------------|---------------|------|---------------|------|-------------|------|
|                     |                    |                       | Typ.          | Max. | Typ.          | Max. | Typ.        | Max. |
| ACDNR252010UP-R47YT | 0.47±30%           | 1M/0.1V               | 2.85          | 2.57 | 2.80          | 2.50 | 30          | 36   |
| ACDNR252010UP-R68YT | 0.68±30%           | 1M/0.1V               | 2.70          | 2.45 | 2.45          | 2.20 | 39          | 47   |
| ACDNR252010UP-1R0YT | 1.0±30%            | 1M/0.1V               | 2.45          | 2.05 | 2.20          | 1.80 | 55          | 66   |
| ACDNR252010UP-1R5YT | 1.5±30%            | 1M/0.1V               | 1.80          | 1.70 | 1.70          | 1.55 | 90          | 108  |
| ACDNR252010UP-2R2MT | 2.2±20%            | 1M/0.1V               | 1.60          | 1.55 | 1.55          | 1.40 | 114         | 137  |
| ACDNR252010UP-3R3MT | 3.3±20%            | 1M/0.1V               | 1.30          | 1.10 | 1.25          | 1.10 | 170         | 204  |
| ACDNR252010UP-4R7MT | 4.7±20%            | 1M/0.1V               | 1.10          | 0.95 | 1.05          | 0.92 | 250         | 300  |
| ACDNR252010UP-6R8MT | 6.8±20%            | 1M/0.1V               | 0.95          | 0.80 | 0.85          | 0.76 | 370         | 444  |
| ACDNR252010UP-100MT | 10±20%             | 1M/0.1V               | 0.75          | 0.65 | 0.75          | 0.67 | 470         | 564  |
| ACDNR252010UP-150MT | 15±20%             | 1M/0.1V               | 0.55          | 0.45 | 0.55          | 0.50 | 750         | 900  |
| ACDNR252010UP-220MT | 22±20%             | 1M/0.1V               | 0.50          | 0.40 | 0.50          | 0.45 | 1120        | 1344 |

1 : CORE SIZE      Ferrite Core

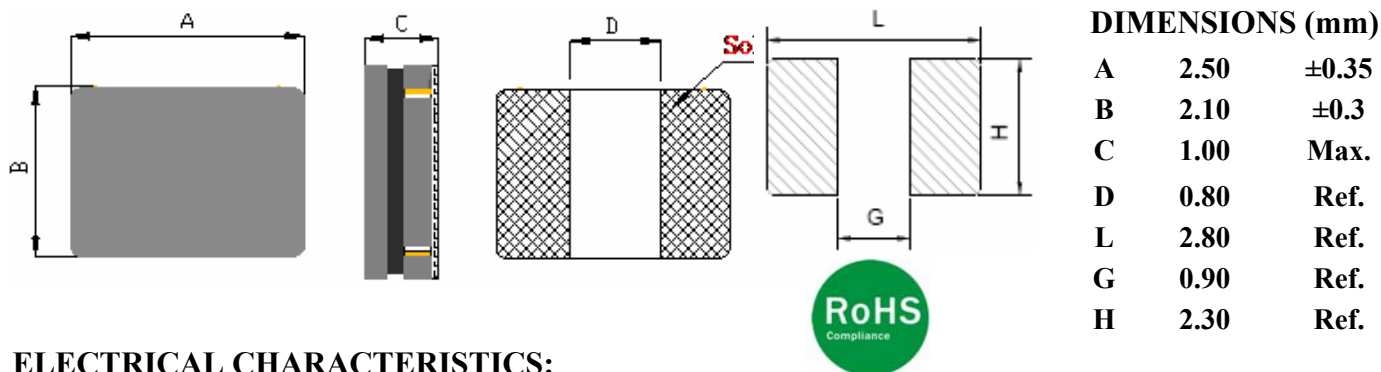
2 : SOLDER      Lead-free process (focus)

## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number        | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |
|---------------------|--------------------|-----------------------|---------------|---------------|-------------|
|                     |                    |                       | Max.          | Max.          | Max.        |
| ACDNR252010SJ-R47MT | 0.47±20%           | 1M/0.1V               | 3.20          | 3.30          | 42          |
| ACDNR252010SJ-R68MT | 0.68±20%           | 1M/0.1V               | 2.60          | 3.20          | 54          |
| ACDNR252010SJ-1R0MT | 1.0±20%            | 1M/0.1V               | 2.20          | 2.60          | 80          |
| ACDNR252010SJ-1R5MT | 1.5±20%            | 1M/0.1V               | 1.60          | 2.40          | 105         |
| ACDNR252010SJ-2R2MT | 2.2±20%            | 1M/0.1V               | 1.40          | 1.80          | 150         |
| ACDNR252010SJ-3R3MT | 3.3±20%            | 1M/0.1V               | 1.20          | 1.50          | 235         |
| ACDNR252010SJ-4R7MT | 4.7±20%            | 1M/0.1V               | 1.10          | 1.20          | 310         |
| ACDNR252010SJ-6R8MT | 6.8±20%            | 1M/0.1V               | 0.80          | 1.00          | 450         |
| ACDNR252010SJ-8R2MT | 8.2±20%            | 1M/0.1V               | 0.75          | 0.90          | 500         |
| ACDNR252010SJ-100MT | 10±20%             | 1M/0.1V               | 0.65          | 0.85          | 550         |

1 : CORE SIZE      Ferrite Core

2 : SOLDER      Lead-free process (focus)

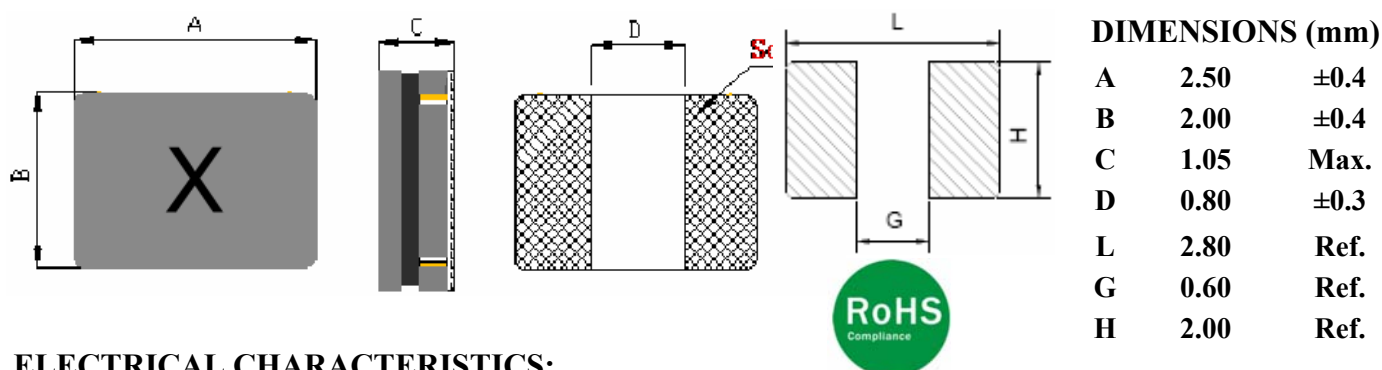
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR252010K SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number       | Inductance (uH) | Test Freq. (Hz) | Isat(A) ※1 | Irms(A) ※2 | DCR (mΩ) |
|--------------------|-----------------|-----------------|------------|------------|----------|
|                    |                 |                 | Max.       | Max.       | Max.     |
| ACDNR252010K-1R0YT | 1.0±30%         | 1M/0.1V         | 1.85       | 1.65       | 108      |
| ACDNR252010K-1R5YT | 1.5±30%         | 1M/0.1V         | 1.8        | 1.3        | 182      |
| ACDNR252010K-2R2YT | 2.2±30%         | 1M/0.1V         | 1.2        | 1.2        | 209      |
| ACDNR252010K-3R3MT | 3.3±20%         | 1M/0.1V         | 1.05       | 0.9        | 328      |
| ACDNR252010K-4R7MT | 4.7±20%         | 1M/0.1V         | 0.95       | 0.7        | 563      |
| ACDNR252010K-5R6MT | 5.6±20%         | 1M/0.1V         | 0.8        | 0.73       | 563      |
| ACDNR252010K-6R8MT | 6.8±20%         | 1M/0.1V         | 0.78       | 0.59       | 896      |
| ACDNR252010K-100MT | 10±20%          | 1M/0.1V         | 0.65       | 0.5        | 1092     |
| ACDNR252010K-150MT | 15±20%          | 1M/0.1V         | 0.46       | 0.36       | 1885     |
| ACDNR252010K-220MT | 22±20%          | 1M/0.1V         | 0.45       | 0.3        | 2400     |

1 : CORE SIZE      Ferrite Core

2 : SOLDER      Lead-free process (focus)

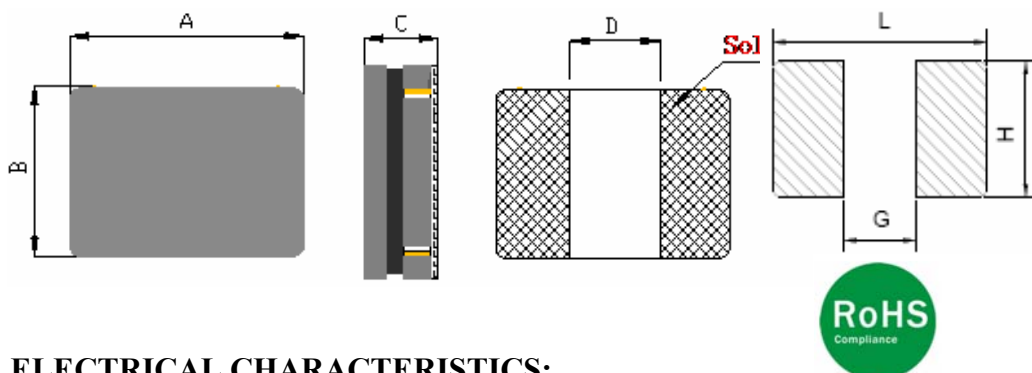
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

# ACDNR252012 SERIES

## MECHANICAL DIMENSION :



## DIMENSIONS (mm)

|   |      |             |
|---|------|-------------|
| A | 2.50 | -0.2/+0.3   |
| B | 2.00 | -0.15/+0.45 |
| C | 1.25 | Max.        |
| D | 0.90 | Ref.        |
| L | 2.90 | Ref.        |
| G | 0.80 | Ref.        |
| H | 2.40 | Ref.        |

## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |
|-------------------|--------------------|-----------------------|---------------|---------------|-------------|
|                   |                    |                       | Max.          | Max.          | Max.        |
| ACDNR252012-R47YT | 0.47±30%           | 100K/1V               | 3.30          | 2.27          | 56          |
| ACDNR252012-R68YT | 0.68±30%           | 100K/1V               | 3.06          | 2.10          | 88          |
| ACDNR252012-1R0YT | 1.0±30%            | 100K/1V               | 2.40          | 2.00          | 102         |
| ACDNR252012-1R5YT | 1.5±30%            | 100K/1V               | 2.20          | 1.80          | 120         |
| ACDNR252012-2R2NT | 2.2±25%            | 100K/1V               | 1.80          | 1.60          | 198         |
| ACDNR252012-3R3MT | 3.3±20%            | 100K/1V               | 1.40          | 1.30          | 234         |
| ACDNR252012-4R7MT | 4.7±20%            | 100K/1V               | 1.30          | 1.00          | 310         |
| ACDNR252012-6R8MT | 6.8±20%            | 100K/1V               | 1.00          | 0.90          | 480         |
| ACDNR252012-8R2MT | 8.2±20%            | 100K/1V               | 0.92          | 0.75          | 607         |
| ACDNR252012-100MT | 10±20%             | 100K/1V               | 0.88          | 0.70          | 690         |
| ACDNR252012-150MT | 15±20%             | 100K/1V               | 0.68          | 0.67          | 975         |
| ACDNR252012-220MT | 22±20%             | 100K/1V               | 0.55          | 0.50          | 1560        |

1 : CORE SIZE 2.65-2.15-1.08

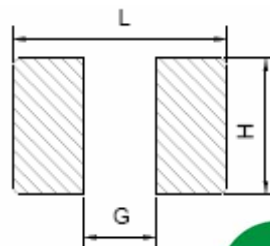
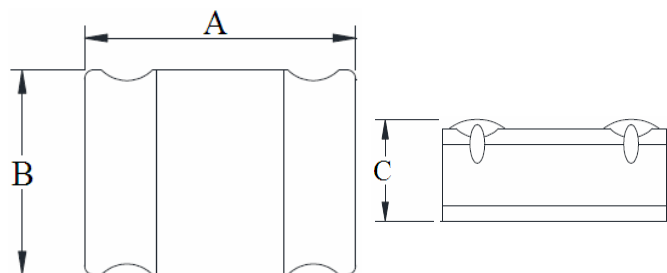
2 : SOLDER Lead-free process (focus)

## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

## MECHANICAL DIMENSION :



## DIMENSIONS (mm)

|   |      |      |
|---|------|------|
| A | 2.50 | ±0.3 |
| B | 2.00 | ±0.3 |
| C | 1.20 | Max. |
| L | 2.60 | Ref. |
| G | 0.80 | Ref. |
| H | 2.10 | Ref. |



## ELECTRICAL CHARACTERISTICS:

| Parts Number        | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 |      | Irms(A)<br>※2 |      | DCR<br>(mΩ) |      |
|---------------------|--------------------|-----------------------|---------------|------|---------------|------|-------------|------|
|                     |                    |                       | Typ.          | Max. | Typ.          | Max. | Typ.        | Max. |
| ACDNR252012TM-R33MT | 0.33±20%           | 1M/1V                 | 7.00          | 6.30 | 4.60          | 4.30 | 23          | 28   |
| ACDNR252012TM-R47MT | 0.47±20%           | 1M/1V                 | 5.50          | 5.00 | 4.20          | 3.75 | 26          | 32   |
| ACDNR252012TM-R68MT | 0.68±20%           | 1M/1V                 | 4.25          | 3.85 | 3.75          | 3.45 | 32          | 39   |
| ACDNR252012TM-1R0MT | 1.0±20%            | 1M/1V                 | 4.20          | 3.80 | 3.70          | 3.35 | 43          | 52.5 |
| ACDNR252012TM-1R5MT | 1.5±20%            | 1M/1V                 | 3.50          | 2.90 | 2.80          | 2.40 | 60          | 72   |
| ACDNR252012TM-2R2MT | 2.2±20%            | 1M/1V                 | 2.71          | 2.30 | 2.05          | 1.85 | 98          | 117  |
| ACDNR252012TM-3R3MT | 3.3±20%            | 1M/1V                 | 2.20          | 2.00 | 1.65          | 1.45 | 156         | 188  |
| ACDNR252012TM-4R7MT | 4.7±20%            | 1M/1V                 | 1.80          | 1.60 | 1.50          | 1.35 | 209         | 251  |
| ACDNR252012TM-100MT | 10±20%             | 1M/1V                 | 1.30          | 1.00 | 1.00          | 0.90 | 390         | 450  |
| ACDNR252012TM-150MT | 15±20%             | 1M/1V                 | 0.90          | 0.80 | 0.70          | 0.63 | 640         | 768  |
| ACDNR252012TM-220MT | 22±20%             | 1M/1V                 | 0.76          | 0.68 | 0.58          | 0.52 | 1000        | 1200 |

1 : CORE SIZE      Ferrite Core

2 : SOLDER      Lead-free process (focus)

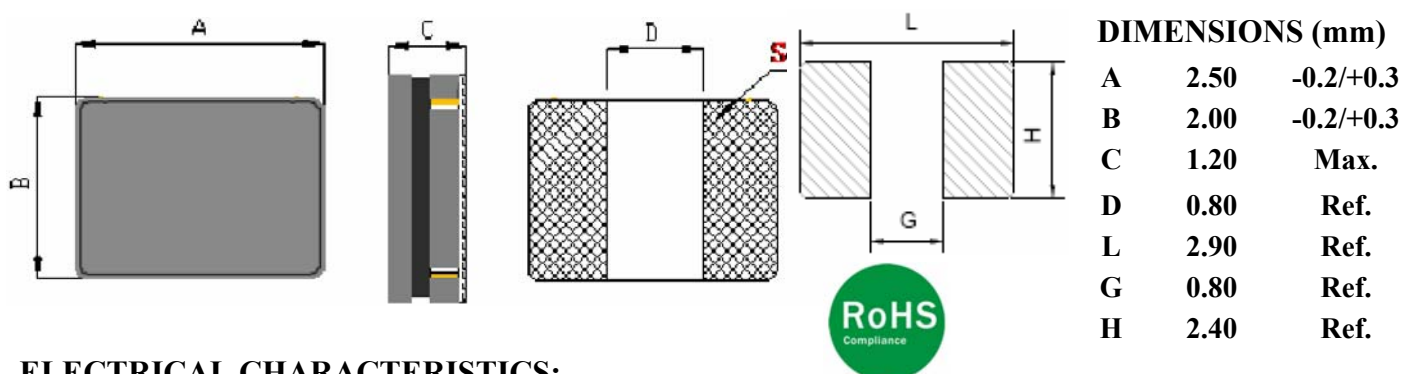
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR252012UP SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number        | Inductance (uH) | Test Freq. (Hz) | Isat(A) ※1 |      | Irms(A) ※2 |      | DCR (mΩ) |      |
|---------------------|-----------------|-----------------|------------|------|------------|------|----------|------|
|                     |                 |                 | Typ.       | Max. | Typ.       | Max. | Typ.     | Max. |
| ACDNR252012UP-R47YT | 0.47±30%        | 1M/0.1V         | 4.00       | 3.60 | 3.70       | 3.35 | 28       | 34   |
| ACDNR252012UP-R68YT | 0.68±30%        | 1M/0.1V         | 3.00       | 2.70 | 3.30       | 3.00 | 36       | 43   |
| ACDNR252012UP-1R0YT | 1.0±30%         | 1M/0.1V         | 2.70       | 2.45 | 2.60       | 2.30 | 49       | 59   |
| ACDNR252012UP-1R5YT | 1.5±30%         | 1M/0.1V         | 2.30       | 2.05 | 2.20       | 1.95 | 63       | 76   |
| ACDNR252012UP-2R2MT | 2.2±20%         | 1M/0.1V         | 2.15       | 1.95 | 1.85       | 1.65 | 80       | 96   |
| ACDNR252012UP-3R3MT | 3.3±20%         | 1M/0.1V         | 1.70       | 1.50 | 1.45       | 1.30 | 120      | 144  |
| ACDNR252012UP-4R7MT | 4.7±20%         | 1M/0.1V         | 1.50       | 1.35 | 1.20       | 1.05 | 176      | 211  |
| ACDNR252012UP-6R8MT | 6.8±20%         | 1M/0.1V         | 1.15       | 1.00 | 1.00       | 0.90 | 250      | 300  |
| ACDNR252012UP-100MT | 10±20%          | 1M/0.1V         | 0.85       | 0.75 | 0.75       | 0.65 | 410      | 492  |
| ACDNR252012UP-150MT | 15±20%          | 1M/0.1V         | 0.63       | 0.56 | 0.60       | 0.54 | 540      | 648  |
| ACDNR252012UP-220MT | 22±20%          | 1M/0.1V         | 0.56       | 0.50 | 0.50       | 0.45 | 850      | 1020 |

1 : CORE SIZE      Ferrite Core

2 : SOLDER          Lead-free process (focus)

## REMARK :

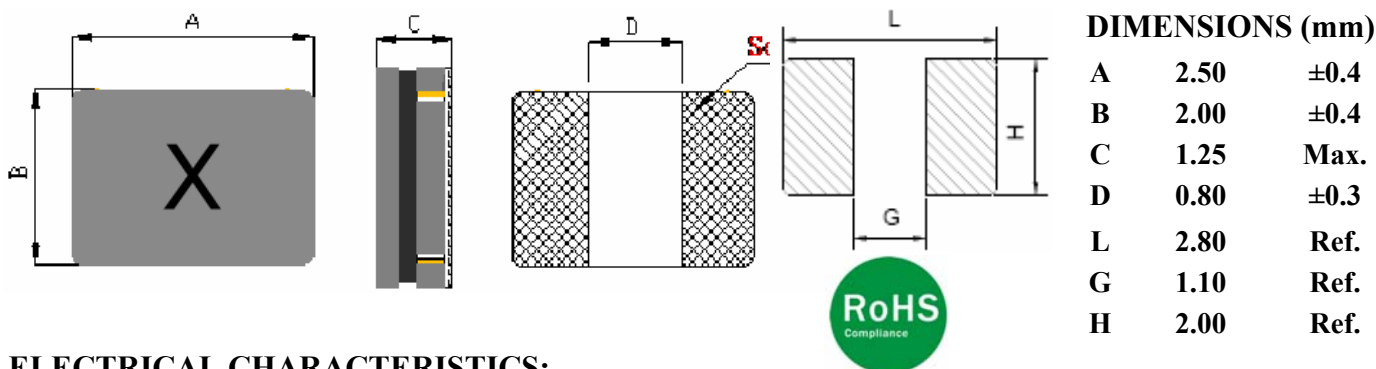
※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)



# ACDNR252012K SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number       | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |
|--------------------|--------------------|-----------------------|---------------|---------------|-------------|
|                    |                    |                       | Max.          | Max.          | Max.        |
| ACDNR252012K-R47YT | 0.47±30%           | 1M/0.1V               | 3.82          | 2.15          | 61          |
| ACDNR252012K-R68YT | 0.68±30%           | 1M/0.1V               | 3.28          | 1.95          | 74          |
| ACDNR252012K-1R0YT | 1.0±30%            | 1M/0.1V               | 2.59          | 1.93          | 90          |
| ACDNR252012K-1R2YT | 1.2±30%            | 1M/0.1V               | 2.38          | 1.46          | 129         |
| ACDNR252012K-1R5YT | 1.5±30%            | 1M/0.1V               | 2.24          | 1.4           | 147         |
| ACDNR252012K-2R2YT | 2.2±30%            | 1M/0.1V               | 1.85          | 1.15          | 216         |
| ACDNR252012K-3R3MT | 3.3±20%            | 1M/0.1V               | 1.61          | 1.04          | 264         |
| ACDNR252012K-4R7MT | 4.7±20%            | 1M/0.1V               | 1.12          | 0.84          | 377         |
| ACDNR252012K-5R6MT | 5.6±20%            | 1M/0.1V               | 1.11          | 0.73          | 538         |
| ACDNR252012K-6R8MT | 6.8±20%            | 1M/0.1V               | 0.98          | 0.69          | 581         |
| ACDNR252012K-8R2MT | 8.2±20%            | 1M/0.1V               | 0.98          | 0.65          | 658         |
| ACDNR252012K-100MT | 10±20%             | 1M/0.1V               | 0.79          | 0.62          | 690         |
| ACDNR252012K-120MT | 12±20%             | 1M/0.1V               | 0.78          | 0.51          | 1075        |
| ACDNR252012K-150MT | 15±20%             | 1M/0.1V               | 0.68          | 0.42          | 1591        |
| ACDNR252012K-220MT | 22±20%             | 1M/0.1V               | 0.53          | 0.38          | 1976        |

1 : CORE SIZE      Ferrite Core

2 : SOLDER      Lead-free process (focus)

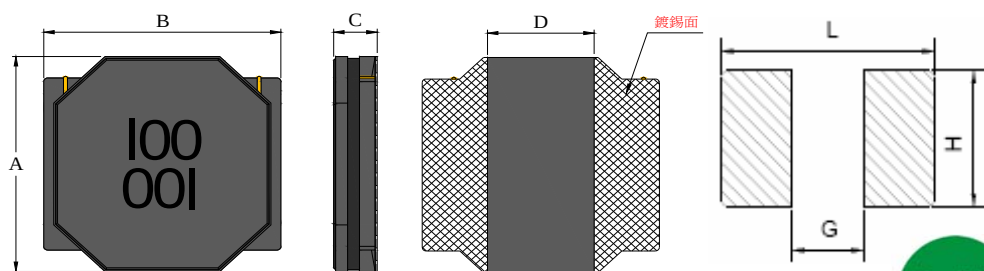
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR3008 SERIES

## MECHANICAL DIMENSION :



## DIMENSIONS (mm)

|   |      |      |
|---|------|------|
| A | 3.00 | ±0.3 |
| B | 3.00 | ±0.3 |
| C | 0.80 | Max. |
| D | 1.00 | Ref. |
| L | 3.00 | Ref. |
| G | 1.40 | Ref. |
| H | 2.70 | Ref. |

## ELECTRICAL CHARACTERISTICS:

| Parts Number    | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|-----------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                 |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR3008-2R2YT | 2.2±30%            | 100K/1V               | 1.20          | 1.00          | 212         | 260  |
| ACDNR3008-3R3NT | 3.3±25%            | 100K/1V               | 0.75          | 0.75          | 257         | 308  |
| ACDNR3008-4R7NT | 4.7±25%            | 100K/1V               | 0.85          | 0.80          | 424         | 510  |
| ACDNR3008-6R8MT | 6.8±20%            | 100K/1V               | 0.50          | 0.50          | 483         | 623  |
| ACDNR3008-100MT | 10±20%             | 100K/1V               | 0.65          | 0.65          | 632         | 829  |

1 : CORE SIZE 3.0-3.0-0.72

2 : SOLDER Lead-free process (focus)

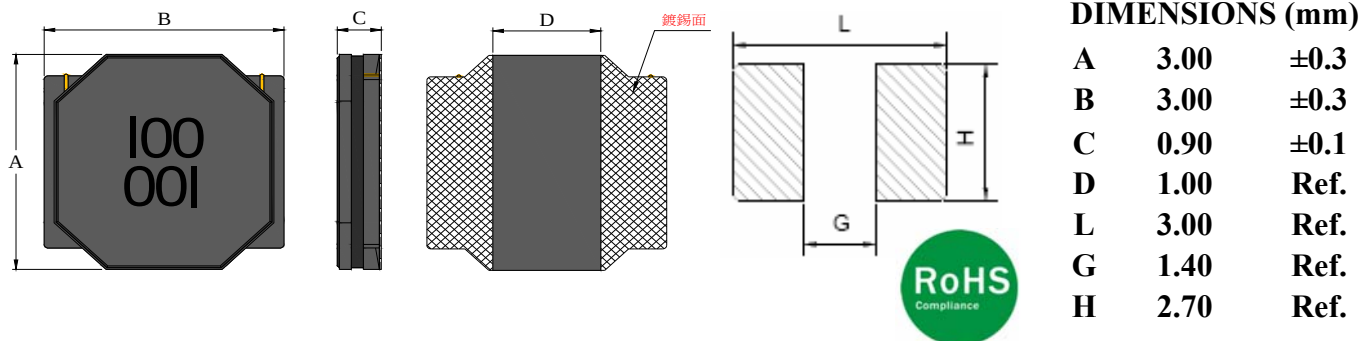
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR3010 SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number    | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|-----------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                 |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR3010-1R5YT | 1.5±30%            | 100K/1V               | 1.50          | 1.50          | 112         | 144  |
| ACDNR3010-2R2NT | 2.2±25%            | 100K/1V               | 1.30          | 1.30          | 120         | 160  |
| ACDNR3010-3R3NT | 3.3±25%            | 100K/1V               | 1.20          | 1.20          | 190         | 244  |
| ACDNR3010-4R7NT | 4.7±25%            | 100K/1V               | 1.10          | 0.90          | 275         | 360  |
| ACDNR3010-6R8MT | 6.8±20%            | 100K/1V               | 0.90          | 0.90          | 400         | 450  |
| ACDNR3010-8R2MT | 8.2±20%            | 100K/1V               | 0.70          | 0.70          | 408         | 490  |
| ACDNR3010-100MT | 10±20%             | 100K/1V               | 0.80          | 0.80          | 514         | 590  |
| ACDNR3010-150MT | 15±20%             | 100K/1V               | 0.50          | 0.50          | 933         | 1120 |
| ACDNR3010-220MT | 22±20%             | 100K/1V               | 0.42          | 0.42          | 1130        | 1300 |

1 : CORE SIZE 3.0-3.0-0.92

2 : SOLDER Lead-free process (focus)

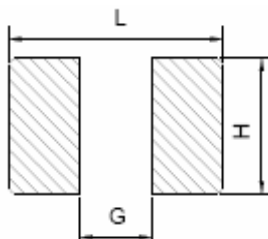
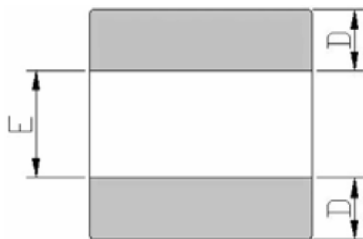
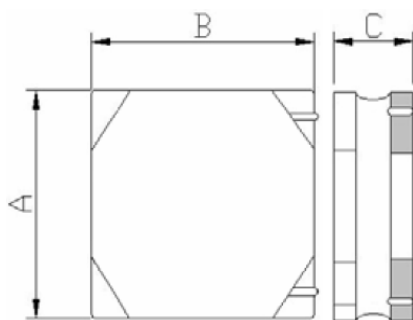
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

# ACDNR3010ET SERIES

## MECHANICAL DIMENSION :



### DIMENSIONS (mm)

|   |      |      |
|---|------|------|
| A | 3.00 | ±0.3 |
| B | 3.00 | ±0.3 |
| C | 1.00 | Max. |
| D | 1.00 | Ref. |
| E | 1.00 | Ref. |
| L | 3.20 | Ref. |
| G | 1.00 | Ref. |
| H | 3.20 | Ref. |



## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 |      | Irms(A)<br>※2 |      | DCR<br>(mΩ) |      |
|-------------------|--------------------|-----------------------|---------------|------|---------------|------|-------------|------|
|                   |                    |                       | Typ.          | Max. | Typ.          | Max. | Typ.        | Max. |
| ACDNR3010ET-R47MT | 0.47±20%           | 1M/1V                 | 6.50          | 4.80 | 4.50          | 3.90 | 35          | 43   |
| ACDNR3010ET-R68MT | 0.68±20%           | 1M/1V                 | 5.50          | 3.80 | 4.00          | 3.50 | 50          | 60   |
| ACDNR3010ET-1R0MT | 1.0±20%            | 1M/1V                 | 5.20          | 3.50 | 2.80          | 2.40 | 90          | 108  |
| ACDNR3010ET-1R5MT | 1.5±20%            | 1M/1V                 | 3.50          | 2.80 | 2.40          | 2.10 | 90          | 108  |
| ACDNR3010ET-2R2MT | 2.2±20%            | 1M/1V                 | 3.00          | 1.90 | 2.20          | 1.90 | 125         | 144  |
| ACDNR3010ET-3R3MT | 3.3±20%            | 1M/1V                 | 2.40          | 1.70 | 1.50          | 1.35 | 215         | 248  |
| ACDNR3010ET-4R7MT | 4.7±20%            | 1M/1V                 | 2.00          | 1.40 | 1.30          | 1.15 | 270         | 320  |
| ACDNR3010ET-6R8MT | 6.8±20%            | 1M/1V                 | 1.70          | 1.00 | 1.15          | 1.00 | 390         | 450  |
| ACDNR3010ET-100MT | 10±20%             | 1M/1V                 | 1.30          | 0.95 | 1.00          | 0.85 | 500         | 575  |

1 : CORE SIZE      Ferrite Core

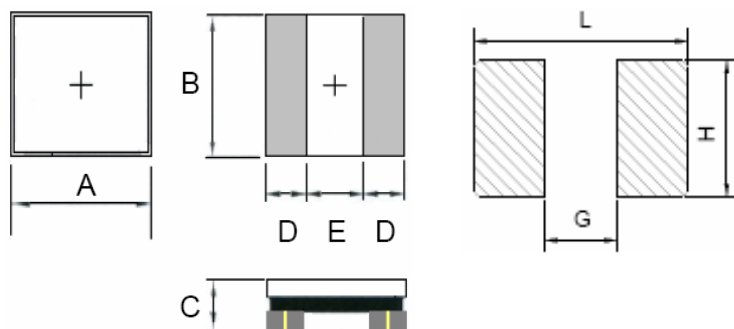
2 : SOLDER      Lead-free process (focus)

## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

## MECHANICAL DIMENSION :



## DIMENSIONS (mm)

|   |      |      |
|---|------|------|
| A | 3.00 | ±0.3 |
| B | 3.00 | ±0.3 |
| C | 1.00 | Max. |
| D | 1.00 | Ref. |
| E | 1.00 | Ref. |
| L | 3.20 | Ref. |
| G | 1.00 | Ref. |
| H | 3.20 | Ref. |

## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 |      | Irms(A)<br>※2 |      | DCR<br>(mΩ) |      |
|-------------------|--------------------|-----------------------|---------------|------|---------------|------|-------------|------|
|                   |                    |                       | Typ.          | Max. | Typ.          | Max. | Typ.        | Max. |
| ACDNR3010TT-1R0YT | 1.0±30%            | 1M/0.1V               | 2.20          | 1.80 | 2.50          | 2.10 | 55          | 66   |
| ACDNR3010TT-1R5YT | 1.5±30%            | 1M/0.1V               | 2.00          | 1.50 | 2.20          | 1.90 | 70          | 84   |
| ACDNR3010TT-2R2MT | 2.2±20%            | 1M/0.1V               | 1.60          | 1.30 | 2.10          | 1.70 | 90          | 108  |
| ACDNR3010TT-3R3MT | 3.3±20%            | 1M/0.1V               | 1.30          | 1.10 | 1.70          | 1.50 | 130         | 156  |
| ACDNR3010TT-4R7MT | 4.7±20%            | 1M/0.1V               | 1.20          | 0.90 | 1.50          | 1.30 | 170         | 204  |
| ACDNR3010TT-6R8MT | 6.8±20%            | 1M/0.1V               | 0.90          | 0.77 | 1.30          | 1.00 | 260         | 312  |
| ACDNR3010TT-100MT | 10±20%             | 1M/0.1V               | 0.75          | 0.63 | 1.00          | 0.80 | 350         | 420  |
| ACDNR3010TT-150MT | 15±20%             | 1M/0.1V               | 0.65          | 0.54 | 0.80          | 0.70 | 510         | 612  |
| ACDNR3010TT-220MT | 22±20%             | 1M/0.1V               | 0.55          | 0.43 | 0.75          | 0.60 | 750         | 900  |

1 : CORE SIZE      Ferrite Core

2 : SOLDER      Lead-free process (focus)

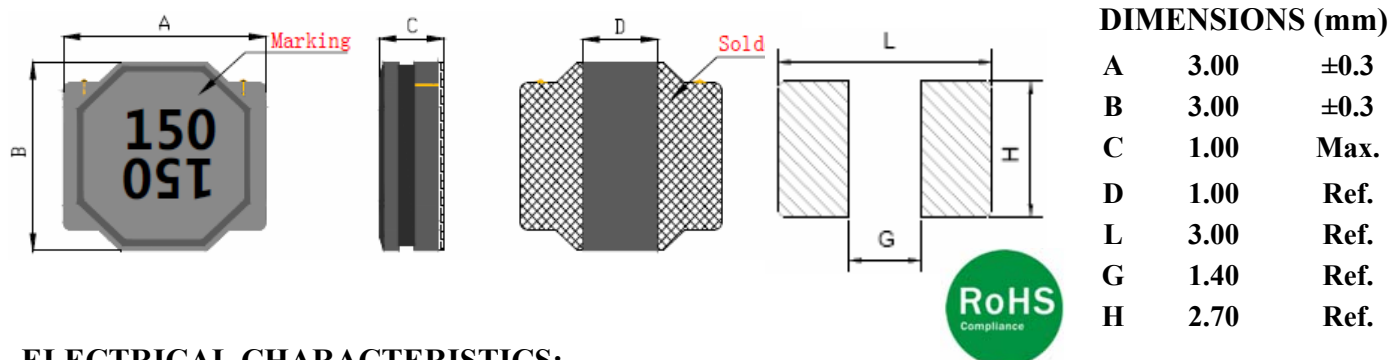
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR3010LT SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |
|-------------------|--------------------|-----------------------|---------------|---------------|-------------|
|                   |                    |                       | Max.          | Max.          | Max.        |
| ACDNR3010LT-150MT | 15±20%             | 100K/0.1V             | 0.6           | 0.7           | 1060        |

1 : CORE SIZE 3.0-3.0-0.92

2 : SOLDER Lead-free process (focus)

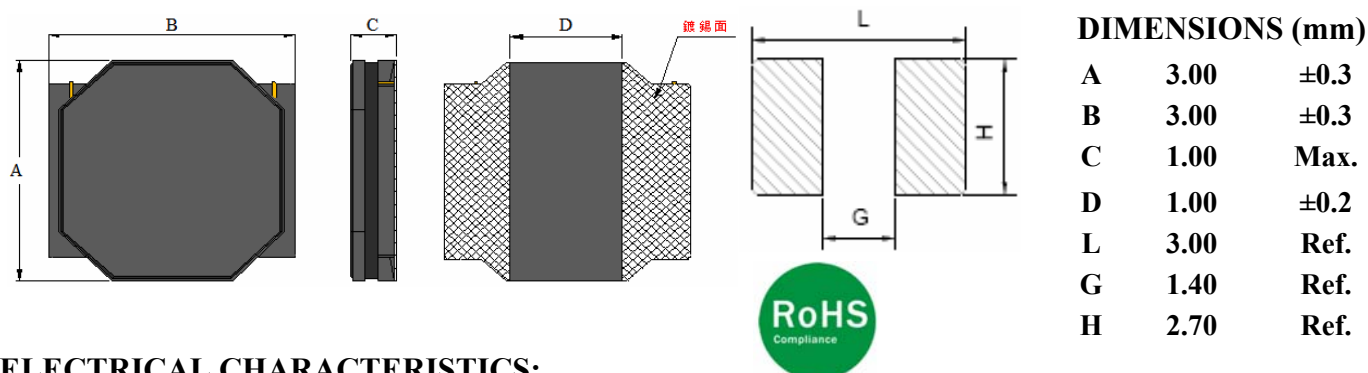
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

# ACDNR3010FJ SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |
|-------------------|--------------------|-----------------------|---------------|---------------|-------------|
|                   |                    |                       | Max.          | Max.          | Max.        |
| ACDNR3010FJ-R47MT | 0.47±20%           | 100K/1V               | 5.40          | 3.90          | 39          |
| ACDNR3010FJ-1R0MT | 1.0±20%            | 100K/1V               | 4.40          | 2.40          | 86          |
| ACDNR3010FJ-1R5MT | 1.5±20%            | 100K/1V               | 3.00          | 2.10          | 100         |
| ACDNR3010FJ-2R2MT | 2.2±20%            | 100K/1V               | 2.50          | 1.90          | 144         |
| ACDNR3010FJ-3R3MT | 3.3±20%            | 100K/1V               | 2.00          | 1.35          | 248         |
| ACDNR3010FJ-4R7MT | 4.7±20%            | 100K/1V               | 1.70          | 1.15          | 345         |
| ACDNR3010FJ-6R8MT | 6.8±20%            | 100K/1V               | 1.40          | 1.00          | 437         |
| ACDNR3010FJ-100MT | 10±20%             | 100K/1V               | 1.10          | 0.85          | 575         |

1 : CORE SIZE      Ferrite Core

2 : SOLDER      Lead-free process (focus)

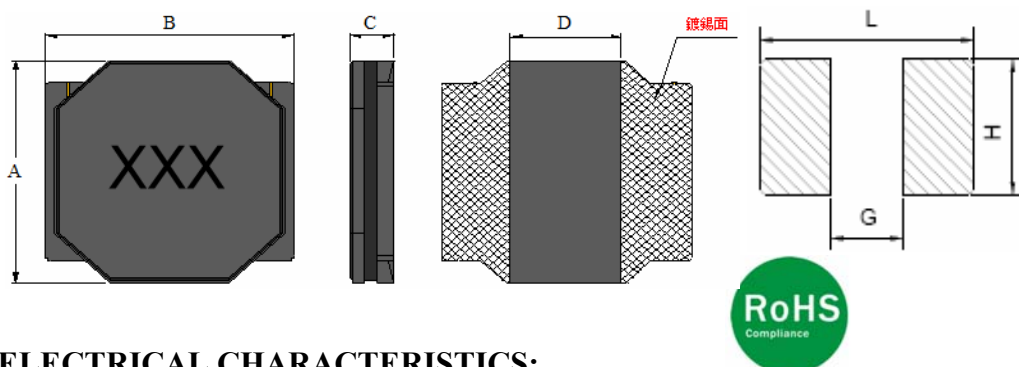
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)



## MECHANICAL DIMENSION :



## DIMENSIONS (mm)

|   |      |      |
|---|------|------|
| A | 3.00 | ±0.3 |
| B | 3.00 | ±0.3 |
| C | 1.10 | Max  |
| D | 1.20 | ±0.3 |
| L | 3.10 | Ref. |
| G | 1.10 | Ref. |
| H | 2.70 | Ref. |

## ELECTRICAL CHARACTERISTICS:

| Parts Number     | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|------------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                  |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR3010K-1R0YT | 1.0±30%            | 100K/1V               | 1.40          | 1.45          | 65          | 85   |
| ACDNR3010K-1R5YT | 1.5±30%            | 100K/1V               | 1.27          | 1.30          | 80          | 104  |
| ACDNR3010K-2R2YT | 2.2±30%            | 100K/1V               | 1.15          | 1.09          | 110         | 143  |
| ACDNR3010K-3R3MT | 3.3±20%            | 100K/1V               | 0.97          | 0.96          | 145         | 189  |
| ACDNR3010K-4R7MT | 4.7±20%            | 100K/1V               | 0.75          | 0.77          | 225         | 293  |
| ACDNR3010K-6R8MT | 6.8±20%            | 100K/1V               | 0.55          | 0.66          | 305         | 397  |
| ACDNR3010K-100MT | 10±20%             | 100K/1V               | 0.45          | 0.58          | 400         | 520  |
| ACDNR3010K-150MT | 15±20%             | 100K/1V               | 0.42          | 0.47          | 610         | 793  |
| ACDNR3010K-220MT | 22±20%             | 100K/1V               | 0.35          | 0.38          | 930         | 1209 |
| ACDNR3010K-330MT | 33±20%             | 100K/1V               | 0.29          | 0.30          | 1550        | 2015 |
| ACDNR3010K-470MT | 47±20%             | 100K/1V               | 0.22          | 0.26          | 1950        | 2535 |

1 : CORE SIZE Ferrite Core

2 : SOLDER Lead-free process (focus)

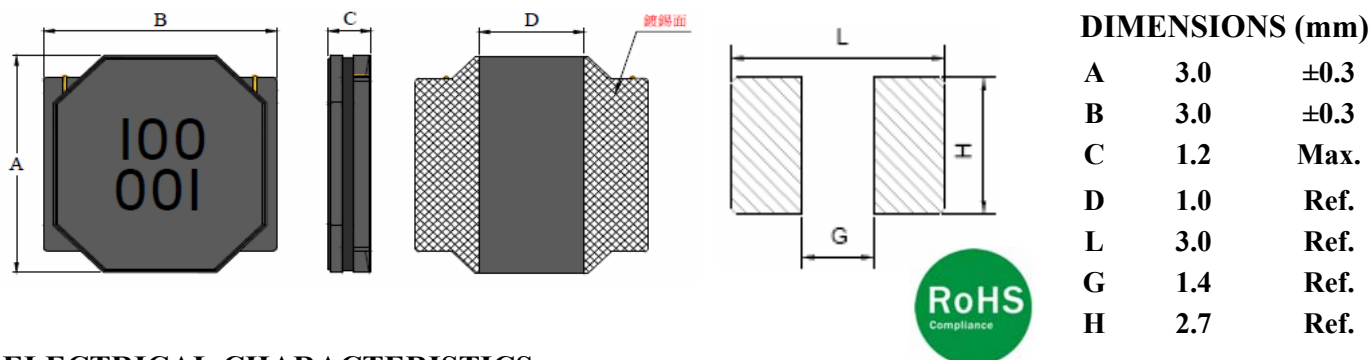
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR3012 SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number    | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |
|-----------------|--------------------|-----------------------|---------------|---------------|-------------|
|                 |                    |                       | Max.          | Max.          | Max.        |
| ACDNR3012-2R2MT | 2.2±20%            | 100K/1V               | 1.10          | 1.20          | 100         |
| ACDNR3012-4R7MT | 4.7±20%            | 100K/1V               | 0.77          | 0.98          | 156         |
| ACDNR3012-100MT | 10±20%             | 100K/1V               | 0.54          | 0.63          | 348         |
| ACDNR3012-150MT | 15±20%             | 100K/1V               | 0.44          | 0.48          | 540         |

1 : CORE SIZE 3.0-3.0-1.05

2 : SOLDER Lead-free process (focus)

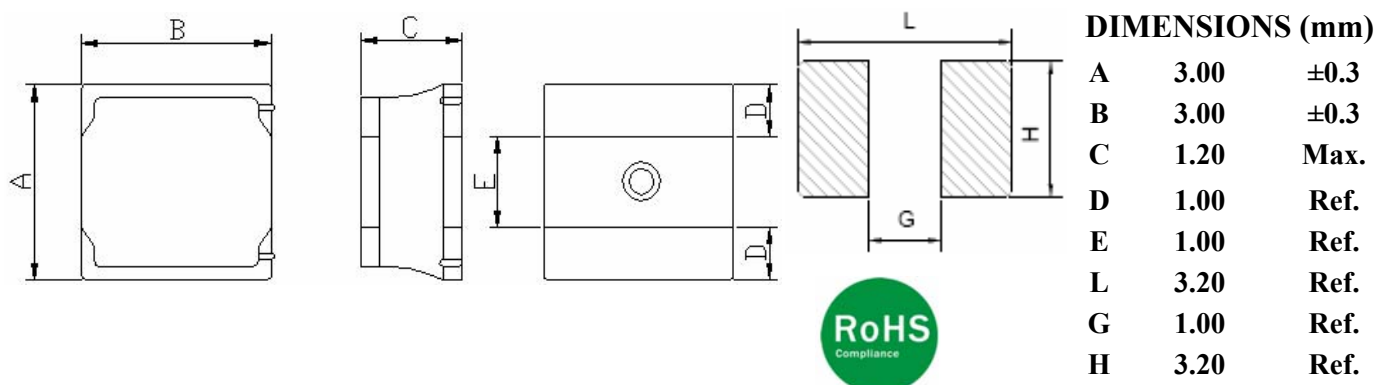
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR3012TT SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance (uH) | Test Freq. (Hz) | Isat(A) ※1 |      | Irms(A) ※2 |      | DCR (mΩ) |      |
|-------------------|-----------------|-----------------|------------|------|------------|------|----------|------|
|                   |                 |                 | Typ.       | Max. | Typ.       | Max. | Typ.     | Max. |
| ACDNR3012TT-1R0YT | 1.0±30%         | 1M/0.1V         | 2.50       | 2.15 | 2.20       | 2.00 | 42       | 50   |
| ACDNR3012TT-1R5YT | 1.5±30%         | 1M/0.1V         | 2.00       | 1.70 | 2.00       | 1.85 | 56       | 67   |
| ACDNR3012TT-2R2MT | 2.2±20%         | 1M/0.1V         | 1.80       | 1.50 | 1.90       | 1.70 | 80       | 96   |
| ACDNR3012TT-3R3MT | 3.3±20%         | 1M/0.1V         | 1.50       | 1.20 | 1.70       | 1.55 | 100      | 120  |
| ACDNR3012TT-4R7MT | 4.7±20%         | 1M/0.1V         | 1.30       | 1.05 | 1.50       | 1.30 | 130      | 156  |
| ACDNR3012TT-6R8MT | 6.8±20%         | 1M/0.1V         | 1.20       | 0.90 | 1.20       | 1.05 | 180      | 216  |
| ACDNR3012TT-100MT | 10±20%          | 1M/0.1V         | 0.90       | 0.76 | 1.00       | 0.89 | 245      | 294  |
| ACDNR3012TT-150MT | 15±20%          | 1M/0.1V         | 0.80       | 0.62 | 0.90       | 0.74 | 386      | 463  |
| ACDNR3012TT-220MT | 22±20%          | 1M/0.1V         | 0.60       | 0.49 | 0.70       | 0.61 | 580      | 696  |

1 : CORE SIZE      Ferrite Core

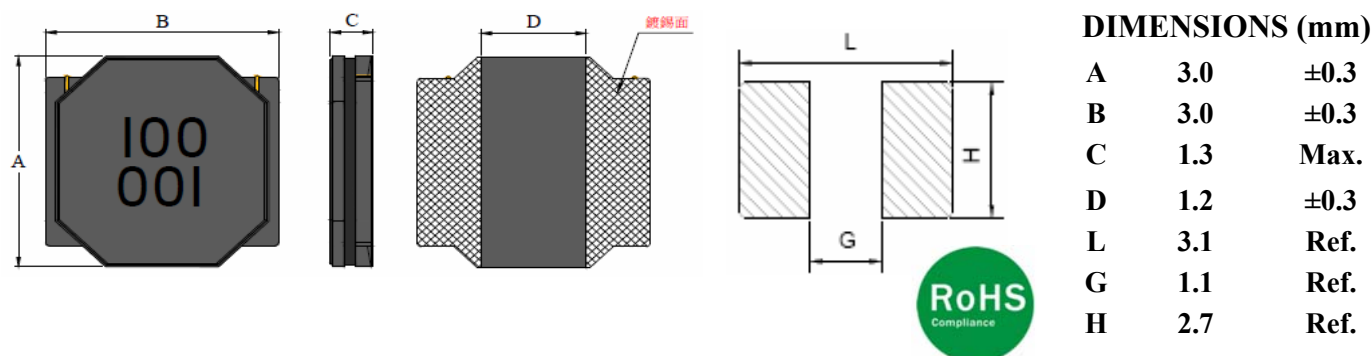
2 : SOLDER          Lead-free process (focus)

## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number     | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|------------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                  |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR3012K-1R0YT | 1.0±30%            | 100K/1V               | 1.87          | 2.20          | 40          | 52   |
| ACDNR3012K-1R5YT | 1.5±30%            | 100K/1V               | 1.62          | 2.01          | 45          | 59   |
| ACDNR3012K-2R2YT | 2.2±30%            | 100K/1V               | 1.20          | 1.55          | 75          | 98   |
| ACDNR3012K-3R3MT | 3.3±20%            | 100K/1V               | 1.05          | 1.36          | 100         | 130  |
| ACDNR3012K-4R7MT | 4.7±20%            | 100K/1V               | 0.90          | 1.24          | 120         | 156  |
| ACDNR3012K-6R8MT | 6.8±20%            | 100K/1V               | 0.75          | 0.98          | 190         | 247  |
| ACDNR3012K-100MT | 10±20%             | 100K/1V               | 0.60          | 0.83          | 265         | 345  |
| ACDNR3012K-150MT | 15±20%             | 100K/1V               | 0.45          | 0.71          | 360         | 468  |
| ACDNR3012K-220MT | 22±20%             | 100K/1V               | 0.42          | 0.53          | 645         | 839  |
| ACDNR3012K-330MT | 33±20%             | 100K/1V               | 0.36          | 0.46          | 875         | 1138 |
| ACDNR3012K-470MT | 47±20%             | 100K/1V               | 0.27          | 0.35          | 1450        | 1885 |
| ACDNR3012K-680MT | 68±20%             | 100K/1V               | 0.24          | 0.33          | 1670        | 2171 |

1 : CORE SIZE      Ferrite Core

2 : SOLDER      Lead-free process (focus)

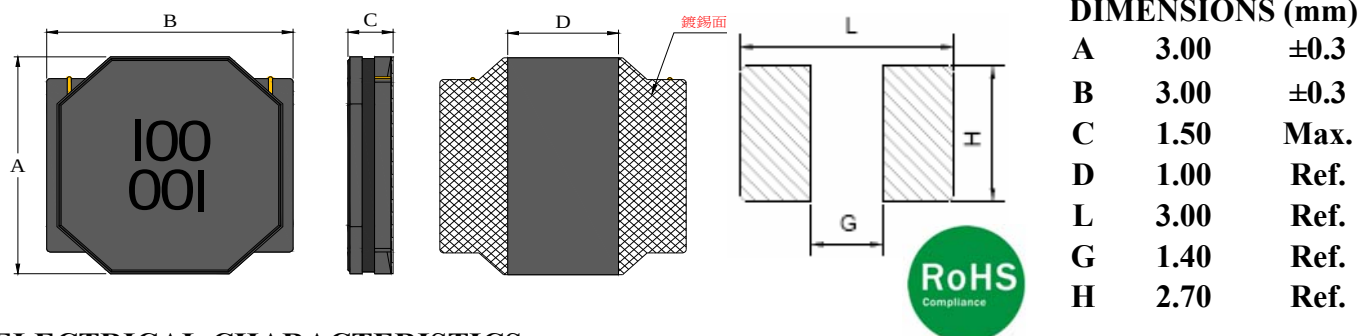
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR3015 SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number    | Inductance (uH) | Test Freq. (Hz) | Isat(A) ※1 | Irms(A) ※2 | DCR (mΩ) |      |
|-----------------|-----------------|-----------------|------------|------------|----------|------|
|                 |                 |                 | Max.       | Max.       | Typ.     | Max. |
| ACDNR3015-1R0YT | 1.0±30%         | 100K/1V         | 2.10       | 2.10       | 40       | 48   |
| ACDNR3015-1R5YT | 1.5±30%         | 100K/1V         | 1.60       | 2.40       | 74       | 97   |
| ACDNR3015-2R2MT | 2.2±20%         | 100K/1V         | 1.48       | 1.60       | 60       | 72   |
| ACDNR3015-4R7MT | 4.7±25%         | 100K/1V         | 1.08       | 1.20       | 113      | 136  |
| ACDNR3015-6R8MT | 6.8±20%         | 100K/1V         | 1.00       | 0.90       | 250      | 300  |
| ACDNR3015-100MT | 10±20%          | 100K/1V         | 0.70       | 0.70       | 270      | 325  |
| ACDNR3015-150MT | 15±20%          | 100K/1V         | 0.70       | 0.65       | 492      | 590  |
| ACDNR3015-220MT | 22±20%          | 100K/1V         | 0.60       | 0.60       | 716      | 860  |
| ACDNR3015-470MT | 47±20%          | 100K/1V         | 0.40       | 0.35       | 1750     | 2100 |

1 : CORE SIZE 3.0-3.0-1.35

2 : SOLDER Lead-free process (focus)

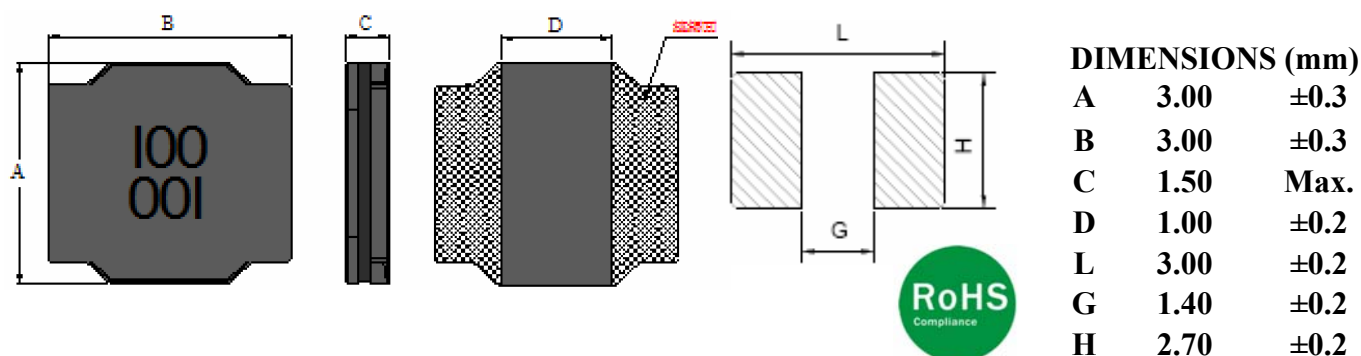
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR3015E SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number     | Inductance (uH) | Test Freq. (Hz) | Isat(A) ※1 | Irms(A) ※2 | DCR (mΩ) |
|------------------|-----------------|-----------------|------------|------------|----------|
|                  |                 |                 | Max.       | Max.       | Max.     |
| ACDNR3015E-1R0YT | 1.0±30%         | 100K/1V         | 2.30       | 2.10       | 48       |
| ACDNR3015E-1R5YT | 1.5±30%         | 100K/1V         | 1.80       | 1.82       | 65       |
| ACDNR3015E-2R2MT | 2.2±20%         | 100K/1V         | 1.48       | 1.50       | 72       |
| ACDNR3015E-4R7MT | 4.7±25%         | 100K/1V         | 1.02       | 1.09       | 162.5    |
| ACDNR3015E-6R8MT | 6.8±20%         | 100K/1V         | 0.87       | 0.88       | 260      |
| ACDNR3015E-100MT | 10±20%          | 100K/1V         | 0.72       | 0.77       | 325      |
| ACDNR3015E-220MT | 22±20%          | 100K/1V         | 0.47       | 0.47       | 624      |
| ACDNR3015E-330MT | 33±20%          | 100K/1V         | 0.44       | 0.43       | 1066     |

1 : CORE SIZE 3.0-3.0-1.35

2 : SOLDER Lead-free process (focus)

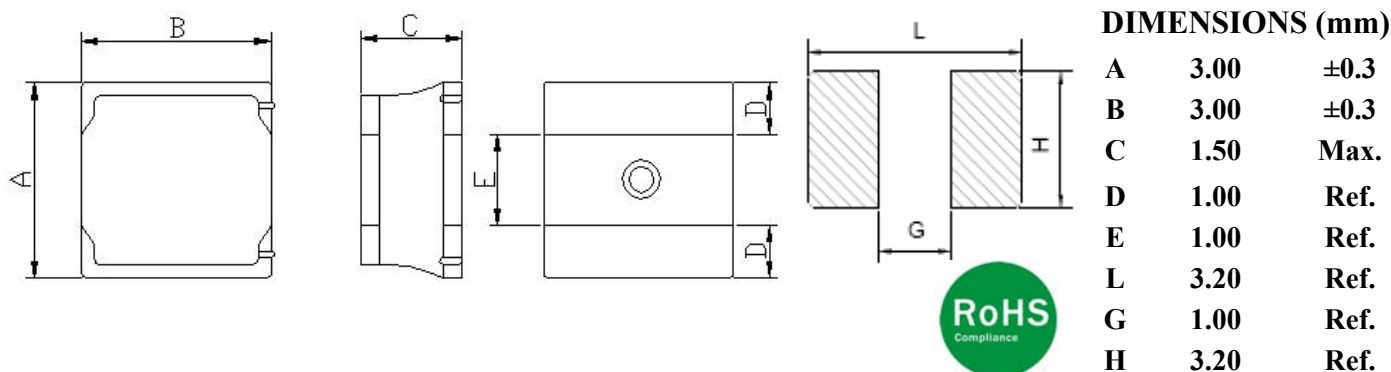
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR3015TT SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance (uH) | Test Freq. (Hz) | Isat(A) ※1 |      | Irms(A) ※2 |      | DCR (mΩ) |      |
|-------------------|-----------------|-----------------|------------|------|------------|------|----------|------|
|                   |                 |                 | Typ.       | Max. | Typ.       | Max. | Typ.     | Max. |
| ACDNR3015TT-1R0YT | 1.0±30%         | 100K/1V         | 2.20       | 2.00 | 2.20       | 2.00 | 30       | 36   |
| ACDNR3015TT-1R5YT | 1.5±30%         | 100K/1V         | 2.00       | 1.80 | 2.00       | 1.80 | 40       | 48   |
| ACDNR3015TT-2R2MT | 2.2±20%         | 100K/1V         | 1.70       | 1.50 | 1.70       | 1.50 | 60       | 72   |
| ACDNR3015TT-3R3MT | 3.3±20%         | 100K/1V         | 1.40       | 1.20 | 1.40       | 1.20 | 80       | 96   |
| ACDNR3015TT-4R7MT | 4.7±20%         | 100K/1V         | 1.20       | 1.00 | 1.20       | 1.00 | 120      | 144  |
| ACDNR3015TT-6R8MT | 6.8±20%         | 100K/1V         | 1.00       | 0.90 | 1.00       | 0.90 | 160      | 192  |
| ACDNR3015TT-100MT | 10±20%          | 100K/1V         | 0.75       | 0.65 | 0.80       | 0.70 | 220      | 264  |
| ACDNR3015TT-150MT | 15±20%          | 100K/1V         | 0.65       | 0.55 | 0.70       | 0.60 | 320      | 384  |
| ACDNR3015TT-220MT | 22±20%          | 100K/1V         | 0.55       | 0.45 | 0.60       | 0.50 | 460      | 552  |
| ACDNR3015TT-330MT | 33±20%          | 100K/1V         | 0.40       | 0.35 | 0.45       | 0.40 | 800      | 960  |
| ACDNR3015TT-470MT | 47±20%          | 100K/1V         | 0.35       | 0.30 | 0.40       | 0.35 | 1200     | 1440 |
| ACDNR3015TT-680MT | 68±20%          | 100K/1V         | 0.30       | 0.25 | 0.35       | 0.30 | 2000     | 2400 |

1 : CORE SIZE      Ferrite Core

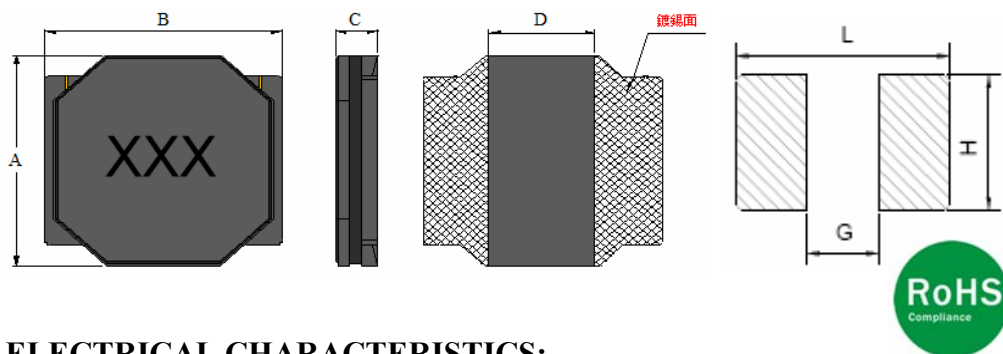
2 : SOLDER      Lead-free process (focus)

## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

## MECHANICAL DIMENSION :



## DIMENSIONS (mm)

|   |      |      |
|---|------|------|
| A | 3.00 | ±0.3 |
| B | 3.00 | ±0.3 |
| C | 1.70 | Max. |
| D | 1.20 | ±0.3 |
| L | 3.10 | Ref. |
| G | 1.10 | Ref. |
| H | 2.70 | Ref. |

## ELECTRICAL CHARACTERISTICS:

| Parts Number     | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|------------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                  |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR3015K-1R0YT | 1.0±30%            | 100K/1V               | 2.32          | 2.35          | 39          | 51   |
| ACDNR3015K-1R2YT | 1.2±30%            | 100K/1V               | 2.21          | 1.95          | 40          | 52   |
| ACDNR3015K-1R5YT | 1.5±30%            | 100K/1V               | 2             | 1.7           | 50          | 65   |
| ACDNR3015K-1R8YT | 1.8±30%            | 100K/1V               | 1.75          | 1.7           | 50          | 65   |
| ACDNR3015K-2R2YT | 2.2±30%            | 100K/1V               | 1.6           | 1.6           | 60          | 78   |
| ACDNR3015K-3R3MT | 3.3±20%            | 100K/1V               | 1.32          | 1.36          | 80          | 104  |
| ACDNR3015K-4R7MT | 4.7±25%            | 100K/1V               | 1.1           | 1.09          | 125         | 163  |
| ACDNR3015K-6R8MT | 6.8±20%            | 100K/1V               | 0.85          | 0.85          | 200         | 260  |
| ACDNR3015K-100MT | 10±20%             | 100K/1V               | 0.72          | 0.77          | 250         | 325  |
| ACDNR3015K-120MT | 12±20%             | 100K/1V               | 0.7           | 0.68          | 320         | 416  |
| ACDNR3015K-150MT | 15±20%             | 100K/1V               | 0.66          | 0.65          | 350         | 455  |
| ACDNR3015K-180MT | 18±20%             | 100K/1V               | 0.56          | 0.59          | 430         | 559  |
| ACDNR3015K-220MT | 22±20%             | 100K/1V               | 0.52          | 0.57          | 460         | 598  |
| ACDNR3015K-330MT | 33±20%             | 100K/1V               | 0.44          | 0.43          | 820         | 1066 |
| ACDNR3015K-470MT | 47±20%             | 100K/1V               | 0.35          | 0.35          | 1250        | 1625 |

1 : CORE SIZE Ferrite Core

2 : SOLDER Lead-free process (focus)

## REMARK :

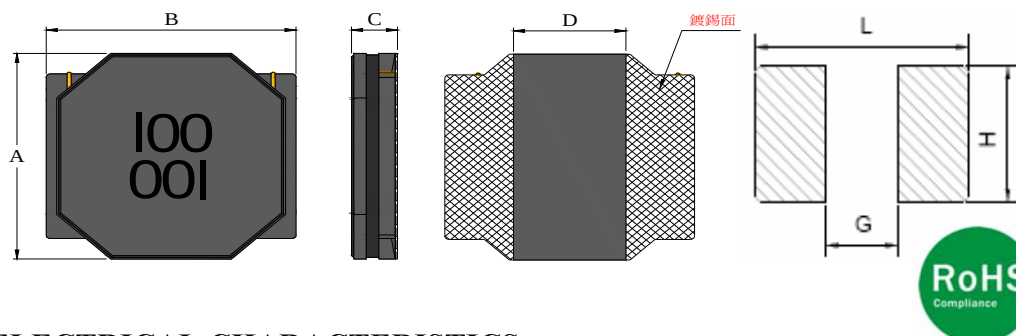
※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)



# ACDNR4009 SERIES

## MECHANICAL DIMENSION :



## DIMENSIONS (mm)

|   |      |      |
|---|------|------|
| A | 4.00 | ±0.3 |
| B | 4.00 | ±0.3 |
| C | 0.90 | Max. |
| D | 1.40 | Ref. |
| L | 4.00 | Ref. |
| G | 1.60 | Ref. |
| H | 3.70 | Ref. |

## ELECTRICAL CHARACTERISTICS:

| Parts Number    | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|-----------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                 |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR4009-1R0MT | 1.0±20%            | 100K/1V               | 2.50          | 2.50          | 82          | 99   |
| ACDNR4009-2R2MT | 2.2±20%            | 100K/1V               | 1.80          | 1.60          | 131         | 158  |
| ACDNR4009-3R3MT | 3.3±20%            | 100K/1V               | 1.60          | 1.40          | 154         | 185  |
| ACDNR4009-4R7MT | 4.7±20%            | 100K/1V               | 1.35          | 1.30          | 193         | 232  |
| ACDNR4009-6R8MT | 6.8±20%            | 100K/1V               | 1.10          | 1.10          | 300         | 360  |
| ACDNR4009-100MT | 10±20%             | 100K/1V               | 0.80          | 0.80          | 477         | 573  |
| ACDNR4009-150MT | 15±20%             | 100K/1V               | 0.70          | 0.70          | 684         | 821  |
| ACDNR4009-220MT | 22±20%             | 100K/1V               | 0.60          | 0.60          | 830         | 996  |

1 : CORE SIZE 4.0-4.0-0.8

2 : SOLDER Lead-free process (focus)

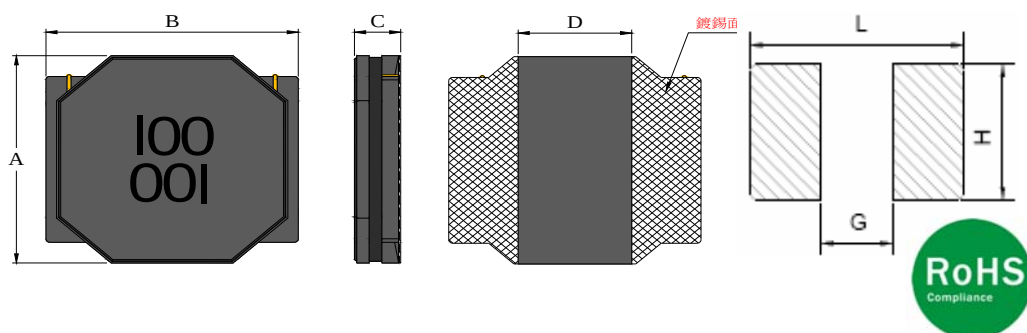
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR4010 SERIES

## MECHANICAL DIMENSION :



## DIMENSIONS (mm)

|   |      |      |
|---|------|------|
| A | 4.00 | ±0.3 |
| B | 4.00 | ±0.3 |
| C | 1.00 | Max. |
| D | 1.40 | Ref. |
| L | 4.00 | Ref. |
| G | 1.60 | Ref. |
| H | 3.70 | Ref. |

## ELECTRICAL CHARACTERISTICS:

| Parts Number    | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|-----------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                 |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR4010-2R2NT | 2.2±25%            | 100K/1V               | 1.80          | 1.60          | 117         | 140  |
| ACDNR4010-3R3NT | 3.3±25%            | 100K/1V               | 1.40          | 1.20          | 151         | 197  |
| ACDNR4010-4R7MT | 4.7±20%            | 100K/1V               | 1.30          | 1.20          | -           | 204  |
| ACDNR4010-6R8MT | 6.8±20%            | 100K/1V               | 1.00          | 1.00          | 283         | 320  |
| ACDNR4010-100MT | 10±20%             | 100K/1V               | 0.80          | 0.80          | 340         | 360  |
| ACDNR4010-150MT | 15±20%             | 100K/1V               | 0.65          | 0.65          | 500         | 600  |
| ACDNR4010-220MT | 22±20%             | 100K/1V               | 0.40          | 0.40          | 809         | 1080 |

1 : CORE SIZE 4.0-4.0-0.9

2 : SOLDER Lead-free process (focus)

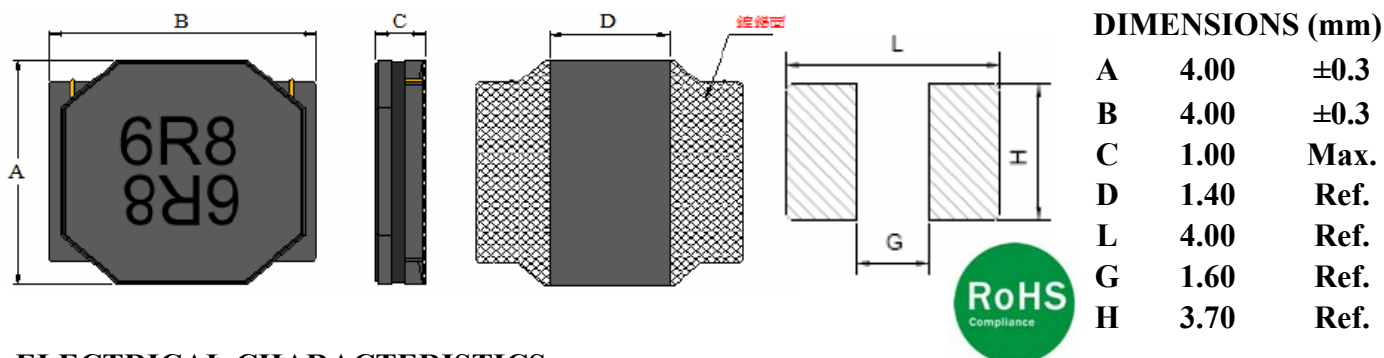
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR4010A SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number     | Inductance (uH) | Test Freq. (Hz) | Isat(A) ※1 | Irms(A) ※2 | DCR (mΩ) |
|------------------|-----------------|-----------------|------------|------------|----------|
|                  |                 |                 | Max.       | Max.       | Max.     |
| ACDNR4010A-6R8MT | 10±20%          | 100K/1V         | 0.80       | 0.80       | 360      |

1 : CORE SIZE 4.0-4.0-0.9

2 : SOLDER Lead-free process (focus)

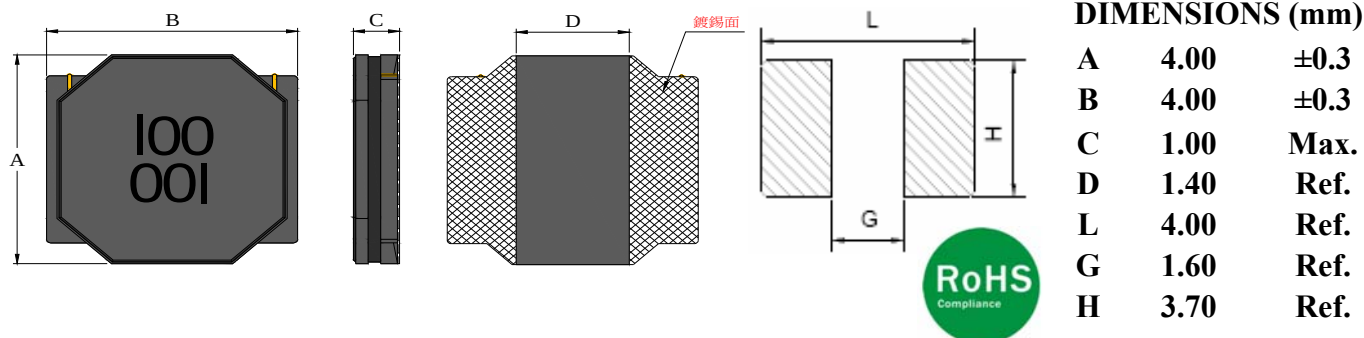
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR4010HY SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|-------------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                   |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR4010HY-2R2MT | 2.2±20%            | 100K/1V               | 2.10          | 1.80          | 117         | 140  |
| ACDNR4010HY-3R3MT | 3.3±20%            | 100K/1V               | 1.80          | 1.50          | 151         | 197  |
| ACDNR4010HY-4R7MT | 4.7±20%            | 100K/1V               | 1.50          | 1.40          | 195         | 240  |
| ACDNR4010HY-6R8MT | 6.8±20%            | 100K/1V               | 1.20          | 1.15          | 283         | 320  |
| ACDNR4010HY-100MT | 10±20%             | 100K/1V               | 1.00          | 1.00          | 340         | 360  |
| ACDNR4010HY-150MT | 15±20%             | 100K/1V               | 0.85          | 0.85          | 571         | 685  |
| ACDNR4010HY-220MT | 22±20%             | 100K/1V               | 0.65          | 0.65          | 750         | 920  |

1 : CORE SIZE 4.0-4.0-0.92

2 : SOLDER Lead-free process (focus)

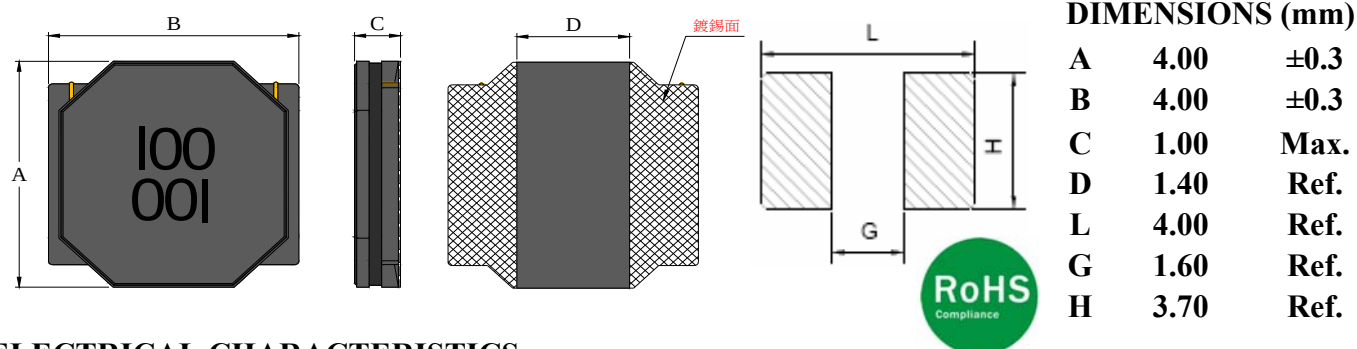
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR4010HP SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |
|-------------------|--------------------|-----------------------|---------------|---------------|-------------|
|                   |                    |                       | Max.          | Max.          | Max.        |
| ACDNR4010HP-100MT | 10±20%             | 100K/1V               | 1.00          | 1.00          | 528         |

- 1 : CORE SIZE 4.0-4.0-0.92
- 2 : SOLDER Lead-free process (focus)

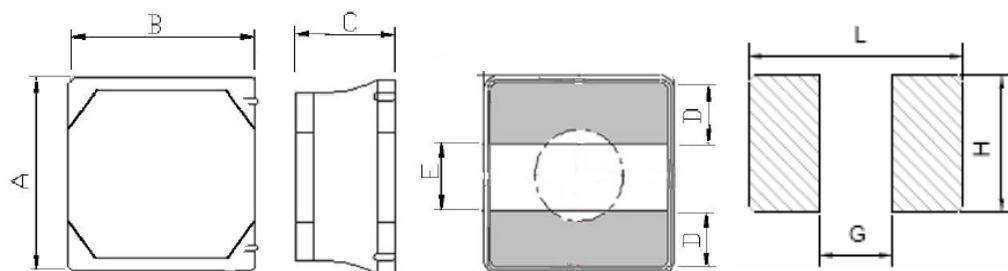
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR4010TT SERIES

## MECHANICAL DIMENSION :



## DIMENSIONS (mm)

|   |      |      |
|---|------|------|
| A | 4.00 | ±0.3 |
| B | 4.00 | ±0.3 |
| C | 1.00 | Max. |
| D | 1.20 | Ref. |
| E | 1.60 | Ref. |
| L | 4.20 | Ref. |
| G | 1.20 | Ref. |
| H | 4.20 | Ref. |

## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance (uH) | Test Freq. (Hz) | Isat(A) ※1 |      | Irms(A) ※2 |      | DCR (mΩ) |      |
|-------------------|-----------------|-----------------|------------|------|------------|------|----------|------|
|                   |                 |                 | Typ.       | Max. | Typ.       | Max. | Typ.     | Max. |
| ACDNR4010TT-1R0YT | 1.0±30%         | 100K/1V         | 2.40       | 2.00 | 2.30       | 1.90 | 56       | 67   |
| ACDNR4010TT-2R2MT | 2.2±20%         | 100K/1V         | 1.50       | 1.20 | 1.80       | 1.50 | 85       | 102  |
| ACDNR4010TT-3R3MT | 3.3±20%         | 100K/1V         | 1.30       | 1.10 | 1.70       | 1.40 | 100      | 120  |
| ACDNR4010TT-4R7MT | 4.7±20%         | 100K/1V         | 1.20       | 0.95 | 1.50       | 1.20 | 140      | 168  |
| ACDNR4010TT-6R8MT | 6.8±20%         | 100K/1V         | 1.00       | 0.80 | 1.20       | 1.00 | 200      | 240  |
| ACDNR4010TT-100MT | 10±20%          | 100K/1V         | 0.80       | 0.62 | 0.90       | 0.75 | 300      | 360  |
| ACDNR4010TT-150MT | 15±20%          | 100K/1V         | 0.70       | 0.54 | 0.80       | 0.60 | 430      | 516  |
| ACDNR4010TT-220MT | 22±20%          | 100K/1V         | 0.60       | 0.45 | 0.80       | 0.50 | 570      | 684  |

1 : CORE SIZE      Ferrite Core

2 : SOLDER      Lead-free process (focus)

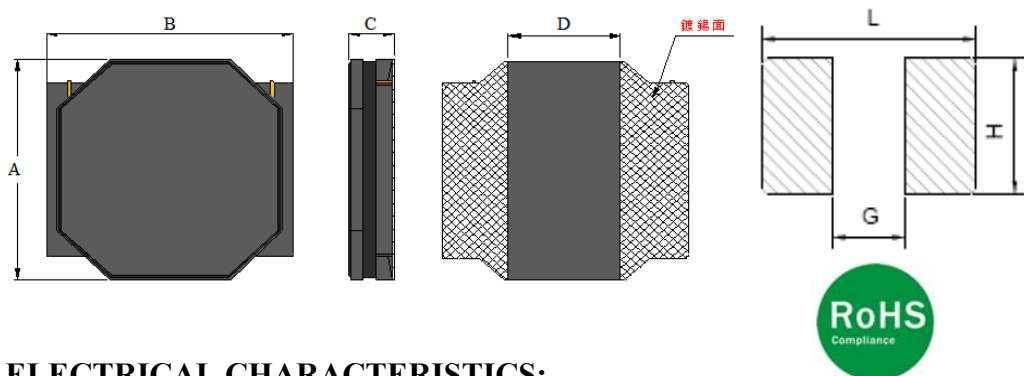
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR4010FJ SERIES

## MECHANICAL DIMENSION :



## DIMENSIONS (mm)

|   |      |      |
|---|------|------|
| A | 4.00 | ±0.3 |
| B | 4.00 | ±0.3 |
| C | 1.00 | Max. |
| D | 1.40 | ±0.2 |
| L | 4.00 | Ref. |
| G | 1.60 | Ref. |
| H | 3.70 | Ref. |

## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |
|-------------------|--------------------|-----------------------|---------------|---------------|-------------|
|                   |                    |                       | Max.          | Max.          | Max.        |
| ACDNR4010FJ-R47MT | 0.47±20%           | 100K/1V               | 6.00          | 4.00          | 40          |
| ACDNR4010FJ-1R0MT | 1.0±20%            | 100K/1V               | 4.70          | 3.00          | 69          |
| ACDNR4010FJ-1R5MT | 1.5±20%            | 100K/1V               | 3.00          | 2.70          | 84          |
| ACDNR4010FJ-2R2MT | 2.2±20%            | 100K/1V               | 2.40          | 2.40          | 115         |
| ACDNR4010FJ-3R3MT | 3.3±20%            | 100K/1V               | 2.00          | 1.80          | 200         |
| ACDNR4010FJ-4R7MT | 4.7±20%            | 100K/1V               | 1.90          | 1.60          | 250         |
| ACDNR4010FJ-6R8MT | 6.8±20%            | 100K/1V               | 1.50          | 1.30          | 370         |
| ACDNR4010FJ-100MT | 10±20%             | 100K/1V               | 1.40          | 1.10          | 510         |

1 : CORE SIZE      Ferrite Core

2 : SOLDER      Lead-free process (focus)

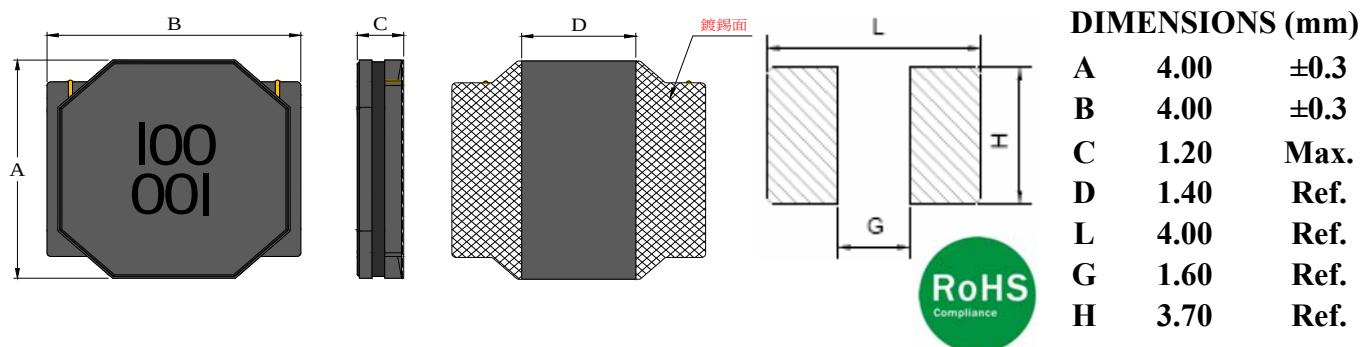
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR4012 SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number    | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|-----------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                 |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR4012-1R0YT | 1.0±30%            | 100K/1V               | 2.50          | 2.40          | 46          | 60   |
| ACDNR4012-2R2NT | 2.2±25%            | 100K/1V               | 1.90          | 1.90          | 98          | 140  |
| ACDNR4012-3R3NT | 3.3±25%            | 100K/1V               | 1.40          | 1.40          | 133         | 160  |
| ACDNR4012-4R7NT | 4.7±25%            | 100K/1V               | 1.30          | 1.20          | 165         | 180  |
| ACDNR4012-6R8MT | 6.8±20%            | 100K/1V               | 1.10          | 1.10          | 229         | 280  |
| ACDNR4012-8R2MT | 8.2±20%            | 100K/1V               | 1.00          | 1.00          | 310         | 370  |
| ACDNR4012-100MT | 10±20%             | 100K/1V               | 1.00          | 1.00          | 380         | 456  |
| ACDNR4012-150MT | 15±20%             | 100K/1V               | 0.80          | 0.80          | 541         | 650  |
| ACDNR4012-220MT | 22±20%             | 100K/1V               | 0.50          | 0.50          | 600         | 720  |

1 : CORE SIZE Ferrite Core

2 : SOLDER Lead-free process (focus)

## REMARK :

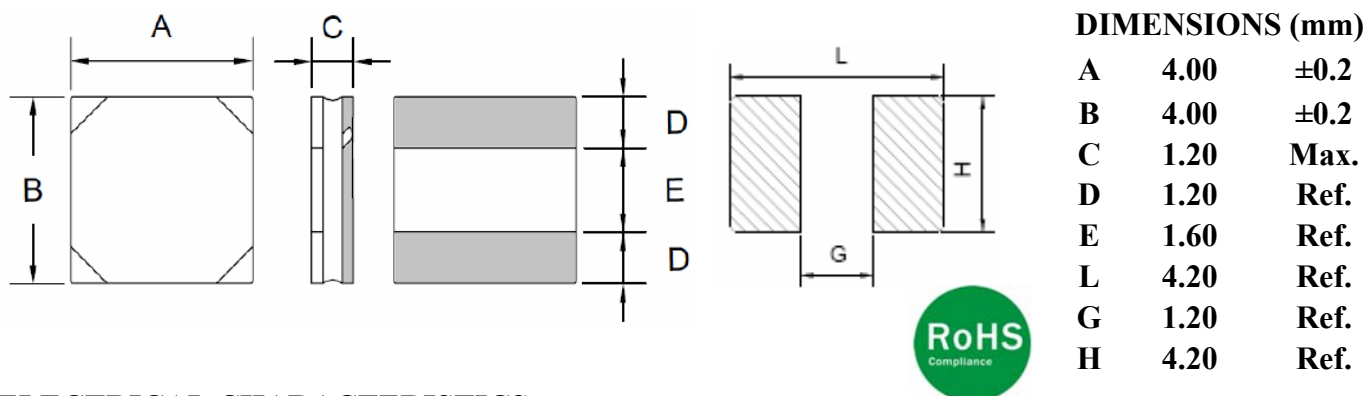
※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)



# ACDNR4012FT SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance (uH) | Test Freq. (Hz) | Isat(A) ※1 |      | Irms(A) ※2 |      | DCR (mΩ) |      |
|-------------------|-----------------|-----------------|------------|------|------------|------|----------|------|
|                   |                 |                 | Typ.       | Max. | Typ.       | Max. | Typ.     | Max. |
| ACDNR4012FT-100MT | 10±20%          | 100K/1V         | 2.00       | 1.70 | 1.60       | 1.40 | 280      | 330  |

1 : CORE SIZE Ferrite Core

2 : SOLDER Lead-free process (focus)

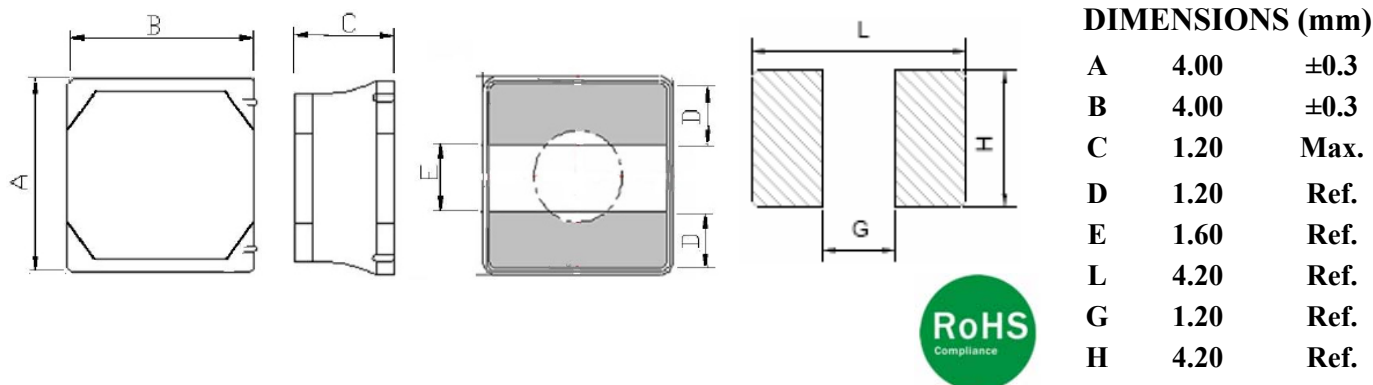
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR4012TT SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance (uH) | Test Freq. (Hz) | Isat(A) ※1 |      | Irms(A) ※2 |      | DCR (mΩ) |      |
|-------------------|-----------------|-----------------|------------|------|------------|------|----------|------|
|                   |                 |                 | Typ.       | Max. | Typ.       | Max. | Typ.     | Max. |
| ACDNR4012TT-1R0YT | 1.0±30%         | 100K/1V         | 3.30       | 2.80 | 2.50       | 2.20 | 42       | 50   |
| ACDNR4012TT-2R2MT | 2.2±20%         | 100K/1V         | 1.95       | 1.65 | 2.20       | 1.90 | 60       | 72   |
| ACDNR4012TT-3R3MT | 3.3±20%         | 100K/1V         | 1.60       | 1.40 | 1.90       | 1.70 | 70       | 84   |
| ACDNR4012TT-4R7MT | 4.7±20%         | 100K/1V         | 1.40       | 1.20 | 1.70       | 1.50 | 95       | 114  |
| ACDNR4012TT-6R8MT | 6.8±20%         | 100K/1V         | 1.10       | 0.90 | 1.50       | 1.30 | 125      | 150  |
| ACDNR4012TT-100MT | 10±20%          | 100K/1V         | 1.00       | 0.80 | 1.30       | 1.10 | 180      | 216  |
| ACDNR4012TT-150MT | 15±20%          | 100K/1V         | 0.80       | 0.65 | 0.95       | 0.75 | 260      | 312  |
| ACDNR4012TT-220MT | 22±20%          | 100K/1V         | 0.60       | 0.50 | 0.72       | 0.62 | 400      | 480  |

1 : CORE SIZE      Ferrite Core

2 : SOLDER          Lead-free process (focus)

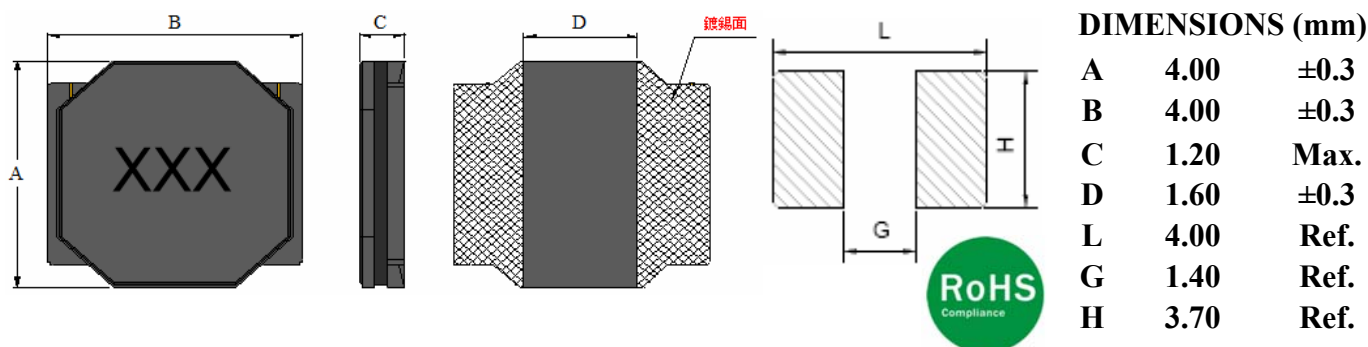
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR4012K SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number     | Inductance (uH) | Test Freq. (Hz) | Isat(A) ※1 | Irms(A) ※2 | DCR (mΩ) |      |
|------------------|-----------------|-----------------|------------|------------|----------|------|
|                  |                 |                 | Max.       | Max.       | Typ.     | Max. |
| ACDNR4012K-R82YT | 0.82±30%        | 100K/1V         | 3.02       | 1.65       | 50       | 65   |
| ACDNR4012K-1R0YT | 1.0±30%         | 100K/1V         | 2.61       | 1.65       | 50       | 65   |
| ACDNR4012K-1R5YT | 1.5±30%         | 100K/1V         | 2.1        | 1.46       | 65       | 85   |
| ACDNR4012K-1R8YT | 1.8±30%         | 100K/1V         | 2.12       | 1.32       | 80       | 104  |
| ACDNR4012K-2R2YT | 2.2±30%         | 100K/1V         | 1.76       | 1.32       | 80       | 104  |
| ACDNR4012K-3R3YT | 3.3±30%         | 100K/1V         | 1.72       | 1.12       | 110      | 143  |
| ACDNR4012K-4R7YT | 4.7±30%         | 100K/1V         | 1.15       | 1.05       | 125      | 163  |
| ACDNR4012K-6R8MT | 6.8±20%         | 100K/1V         | 0.85       | 0.84       | 198      | 257  |
| ACDNR4012K-100MT | 10±20%          | 100K/1V         | 0.8        | 0.77       | 265      | 345  |
| ACDNR4012K-120MT | 12±20%          | 100K/1V         | 0.66       | 0.7        | 290      | 377  |
| ACDNR4012K-150MT | 15±20%          | 100K/1V         | 0.56       | 0.64       | 340      | 442  |
| ACDNR4012K-220MT | 22±20%          | 100K/1V         | 0.46       | 0.49       | 587      | 763  |
| ACDNR4012K-330MT | 33±20%          | 100K/1V         | 0.42       | 0.42       | 810      | 1053 |
| ACDNR4012K-470MT | 47±20%          | 100K/1V         | 0.38       | 0.37       | 1100     | 1430 |
| ACDNR4012K-680MT | 68±20%          | 100K/1V         | 0.35       | 0.27       | 1950     | 2535 |
| ACDNR4012K-820MT | 82±20%          | 100K/1V         | 0.28       | 0.26       | 2140     | 2782 |
| ACDNR4012K-101MT | 100±20%         | 100K/1V         | 0.25       | 0.25       | 2210     | 2873 |

1 : CORE SIZE Ferrite Core

2 : SOLDER Lead-free process (focus)

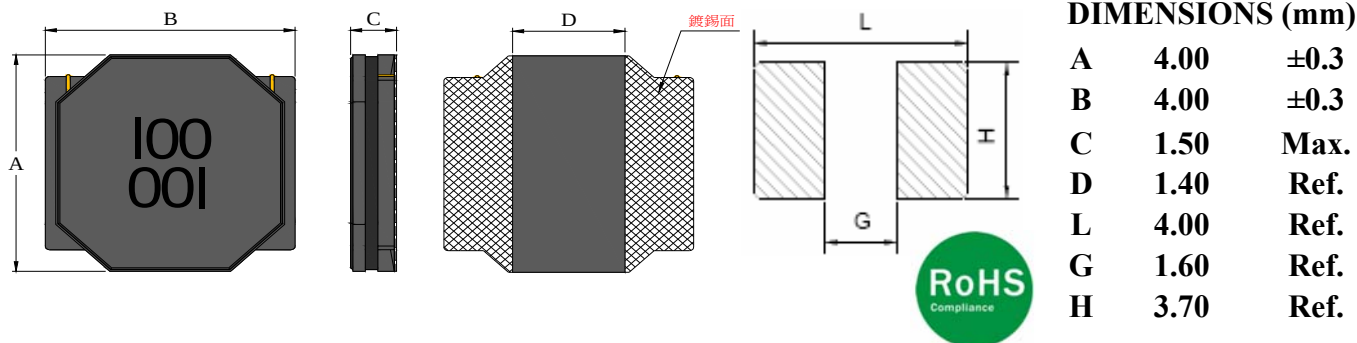
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR4015 SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number    | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|-----------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                 |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR4015-2R2NT | 2.2±25%            | 100K/1V               | 2.40          | 2.40          | 70          | 84   |
| ACDNR4015-3R3NT | 3.3±25%            | 100K/1V               | 2.20          | 2.20          | 92          | 111  |
| ACDNR4015-4R7NT | 4.7±25%            | 100K/1V               | 2.00          | 1.90          | 130         | 158  |
| ACDNR4015-6R8MT | 6.8±20%            | 100K/1V               | 1.60          | 1.60          | 180         | 218  |
| ACDNR4015-100MT | 10±20%             | 100K/1V               | 1.30          | 1.30          | 270         | 326  |
| ACDNR4015-150MT | 15±20%             | 100K/1V               | 1.00          | 1.00          | 308         | 370  |
| ACDNR4015-220MT | 22±20%             | 100K/1V               | 0.80          | 0.80          | 558         | 670  |

1 : CORE SIZE 4.0-4.0-1.35

2 : SOLDER Lead-free process (focus)

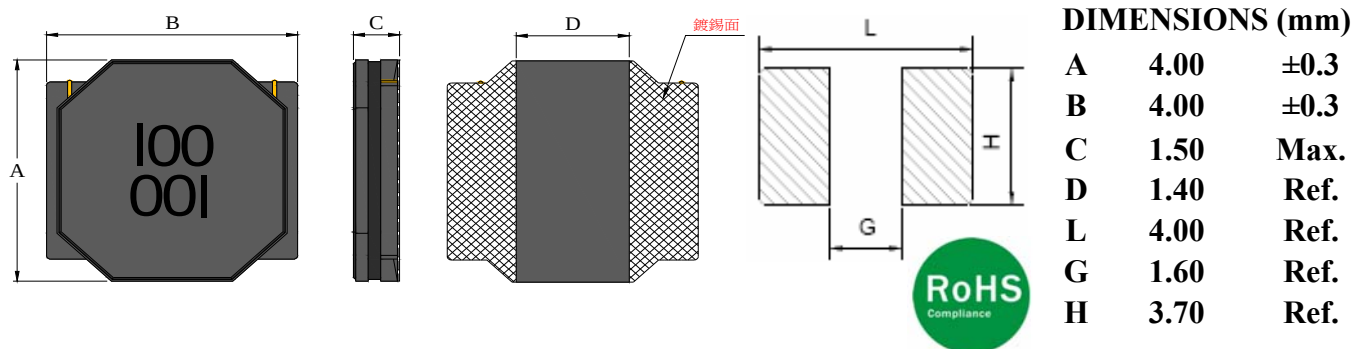
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR4015LL SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance (uH) | Test Freq. (Hz) | Isat(A) ※1 | Irms(A) ※2 | DCR (mΩ) |
|-------------------|-----------------|-----------------|------------|------------|----------|
|                   |                 |                 | Max.       | Max.       | Max.     |
| ACDNR4015LL-2R2NT | 2.2±25%         | 100K/1V         | 2.6        | 2.6        | 84       |

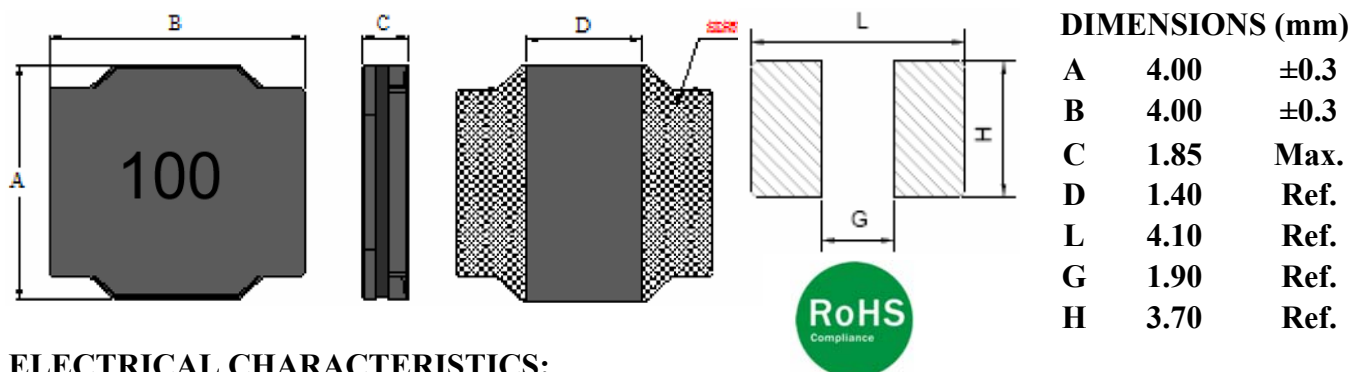
- 1 : CORE SIZE 4.0-4.0-1.35
- 2 : SOLDER Lead-free process (focus)

## REMARK :

- ※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)
- ※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR4018 SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number    | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|-----------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                 |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR4018-1R0YT | 1.0±30%            | 100K/1V               | 4.50          | 2.50          | 23          | 30   |
| ACDNR4018-1R5YT | 1.5±30%            | 100K/1V               | 3.35          | 2.34          | 33          | 43   |
| ACDNR4018-2R2MT | 2.2±20%            | 100K/1V               | 2.70          | 2.00          | 44          | 58   |
| ACDNR4018-3R3MT | 3.3±20%            | 100K/1V               | 2.45          | 1.90          | 70          | 91   |
| ACDNR4018-4R7MT | 4.7±20%            | 100K/1V               | 1.70          | 1.20          | 90          | 117  |
| ACDNR4018-6R8MT | 6.8±20%            | 100K/1V               | 1.45          | 1.30          | 124         | 162  |
| ACDNR4018-100MT | 10±20%             | 100K/1V               | 1.30          | 1.10          | 200         | 260  |
| ACDNR4018-150MT | 15±20%             | 100K/1V               | 0.94          | 0.92          | 268         | 349  |
| ACDNR4018-220MT | 22±20%             | 100K/1V               | 0.80          | 0.80          | 390         | 507  |
| ACDNR4018-330MT | 33±20%             | 100K/1V               | 0.65          | 0.60          | 560         | 728  |
| ACDNR4018-470MT | 47±20%             | 100K/1V               | 0.57          | 0.50          | 756         | 1243 |

1 : CORE SIZE 4.0-4.0-1.65

2 : SOLDER Lead-free process (focus)

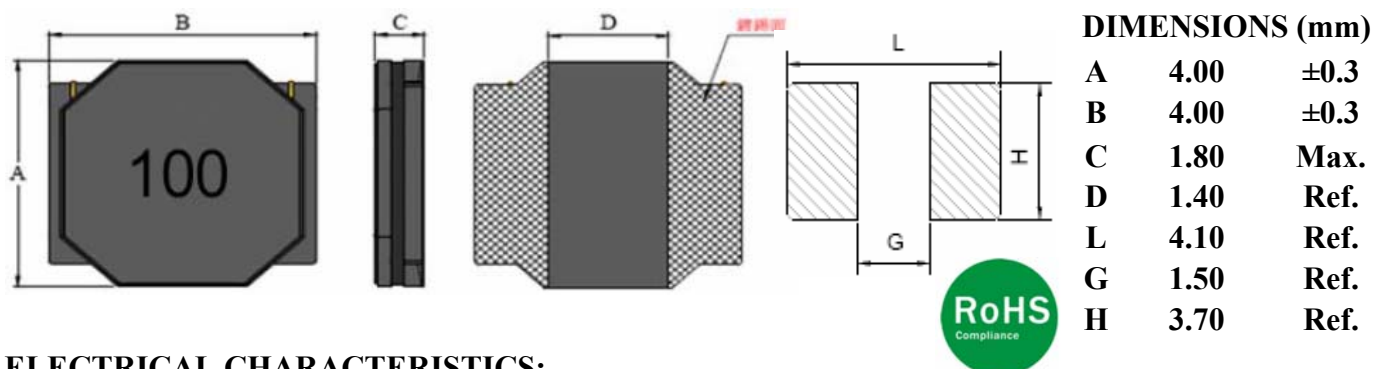
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

## ACDNR4018A SERIES

### MECHANICAL DIMENSION :



### ELECTRICAL CHARACTERISTICS:

| Parts Number     | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |       |
|------------------|--------------------|-----------------------|---------------|---------------|-------------|-------|
|                  |                    |                       | Max.          | Max.          | Typ.        | Max.  |
| ACDNR4018A-6R8MT | 6.8±20%            | 100K/1V               | 1.8           | 1.8           | 105         | 136.5 |
| ACDNR4018A-100MT | 10±20%             | 100K/1V               | 1.3           | 1.4           | -           | 215   |

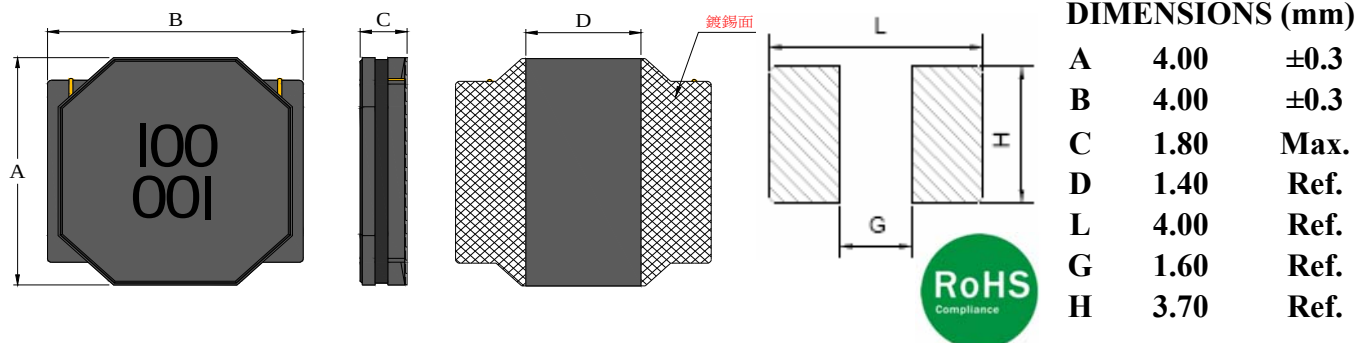
- 1 : CORE SIZE      Ferrite Core
- 2 : SOLDER      Lead-free process (focus)

### REMARK :

- ※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)
- ※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR4018LL SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |
|-------------------|--------------------|-----------------------|---------------|---------------|-------------|
|                   |                    |                       | Max.          | Max.          | Max.        |
| ACDNR4018LL-1R0YT | 1.0±30%            | 100K/1V               | 3.80          | 2.00          | 36          |
| ACDNR4018LL-1R5YT | 1.5±30%            | 100K/1V               | 3.30          | 1.70          | 52          |
| ACDNR4018LL-2R2MT | 2.2±20%            | 100K/1V               | 2.70          | 1.65          | 72          |
| ACDNR4018LL-3R3MT | 3.3±20%            | 100K/1V               | 2.45          | 1.23          | 91          |
| ACDNR4018LL-4R7MT | 4.7±20%            | 100K/1V               | 1.70          | 1.20          | 117         |
| ACDNR4018LL-5R6MT | 5.6±20%            | 100K/1V               | 1.60          | 1.10          | 124         |
| ACDNR4018LL-6R8MT | 6.8±20%            | 100K/1V               | 1.45          | 1.06          | 143         |
| ACDNR4018LL-100MT | 10±20%             | 100K/1V               | 1.30          | 0.84          | 234         |
| ACDNR4018LL-150MT | 15±20%             | 100K/1V               | 0.96          | 0.65          | 351         |
| ACDNR4018LL-220MT | 22±20%             | 100K/1V               | 0.80          | 0.59          | 468         |
| ACDNR4018LL-330MT | 33±20%             | 100K/1V               | 0.65          | 0.49          | 689         |
| ACDNR4018LL-470MT | 47±20%             | 100K/1V               | 0.57          | 0.42          | 845         |
| ACDNR4018LL-680MT | 68±20%             | 100K/1V               | 0.47          | 0.32          | 1600        |
| ACDNR4018LL-101MT | 100±20%            | 100K/1V               | 0.40          | 0.27          | 2275        |

1 : CORE SIZE 4.0-4.0-1.65

2 : SOLDER Lead-free process (focus)

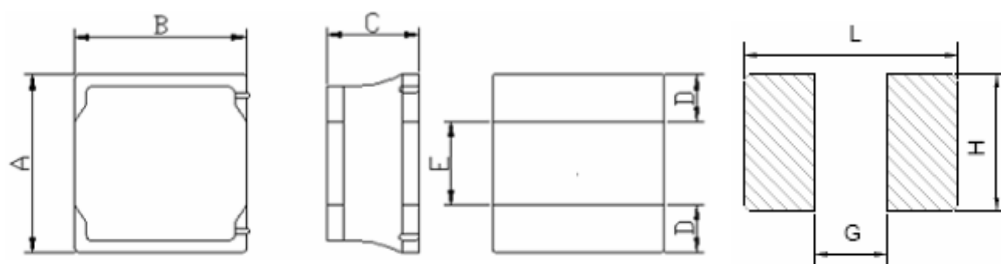
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)



## MECHANICAL DIMENSION :



## DIMENSIONS (mm)

|   |      |      |
|---|------|------|
| A | 4.00 | ±0.3 |
| B | 4.00 | ±0.3 |
| C | 1.80 | Max. |
| D | 1.20 | Ref. |
| E | 1.60 | Ref. |
| L | 4.00 | Ref. |
| G | 1.60 | Ref. |
| H | 3.70 | Ref. |



## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance (uH) | Test Freq. (Hz) | Isat(A)<br>※1 |      | Irms(A)<br>※2 |      | DCR (mΩ) |      |
|-------------------|-----------------|-----------------|---------------|------|---------------|------|----------|------|
|                   |                 |                 | Typ.          | Max. | Typ.          | Max. | Typ.     | Max. |
| ACDNR4018NT-1R0YT | 1.0±30%         | 100K/1V         | 4.00          | 3.60 | 3.70          | 3.60 | 27       | 32   |
| ACDNR4018NT-1R5YT | 1.5±30%         | 100K/1V         | 3.30          | 3.00 | 3.30          | 3.00 | 32       | 38   |
| ACDNR4018NT-2R2MT | 2.2±20%         | 100K/1V         | 3.00          | 2.70 | 2.90          | 2.70 | 42       | 50   |
| ACDNR4018NT-3R3MT | 3.3±20%         | 100K/1V         | 2.30          | 2.20 | 2.30          | 2.20 | 55       | 66   |
| ACDNR4018NT-4R7MT | 4.7±20%         | 100K/1V         | 2.00          | 1.90 | 2.00          | 1.90 | 70       | 84   |
| ACDNR4018NT-6R8MT | 6.8±20%         | 100K/1V         | 1.70          | 1.60 | 1.70          | 1.60 | 98       | 118  |
| ACDNR4018NT-100MT | 10±20%          | 100K/1V         | 1.50          | 1.40 | 1.50          | 1.40 | 150      | 180  |
| ACDNR4018NT-150MT | 15±20%          | 100K/1V         | 1.10          | 1.00 | 1.10          | 1.00 | 190      | 228  |
| ACDNR4018NT-220MT | 22±20%          | 100K/1V         | 0.90          | 0.80 | 0.90          | 0.80 | 290      | 348  |
| ACDNR4018NT-330MT | 33±20%          | 100K/1V         | 0.75          | 0.70 | 0.75          | 0.70 | 405      | 486  |
| ACDNR4018NT-470MT | 47±20%          | 100K/1V         | 0.60          | 0.55 | 0.60          | 0.55 | 550      | 660  |

1 : CORE SIZE      Ferrite Core

2 : SOLDER      Lead-free process (focus)

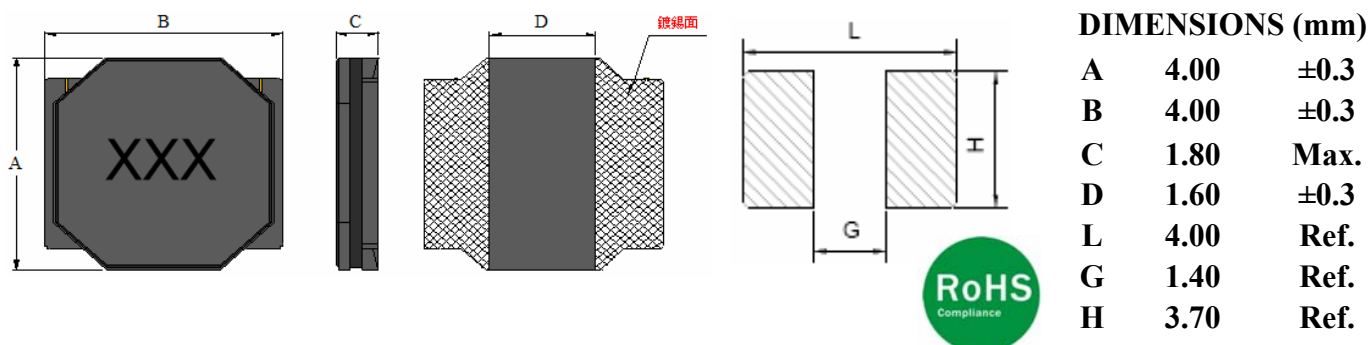
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR4018K SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number     | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|------------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                  |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR4018K-1R0YT | 1.0±30%            | 100K/1V               | 4.2           | 2             | 25          | 33   |
| ACDNR4018K-1R5YT | 1.5±30%            | 100K/1V               | 3.35          | 1.8           | 30          | 39   |
| ACDNR4018K-2R2MT | 2.2±20%            | 100K/1V               | 2.7           | 1.65          | 45          | 59   |
| ACDNR4018K-3R3MT | 3.3±20%            | 100K/1V               | 2.45          | 1.23          | 70          | 91   |
| ACDNR4018K-4R7MT | 4.7±20%            | 100K/1V               | 1.7           | 1.2           | 90          | 117  |
| ACDNR4018K-6R8MT | 6.8±20%            | 100K/1V               | 1.45          | 1.06          | 110         | 143  |
| ACDNR4018K-100MT | 10±20%             | 100K/1V               | 1.3           | 0.84          | 180         | 234  |
| ACDNR4018K-150MT | 15±20%             | 100K/1V               | 0.94          | 0.65          | 250         | 330  |
| ACDNR4018K-220MT | 22±20%             | 100K/1V               | 0.8           | 0.59          | 360         | 468  |
| ACDNR4018K-330MT | 33±20%             | 100K/1V               | 0.56          | 0.49          | 530         | 689  |
| ACDNR4018K-470MT | 47±20%             | 100K/1V               | 0.57          | 0.42          | 650         | 845  |
| ACDNR4018K-680MT | 68±20%             | 100K/1V               | 0.47          | 0.32          | 1000        | 1300 |
| ACDNR4018K-101MT | 100±20%            | 100K/1V               | 0.4           | 0.25          | 1750        | 2275 |
| ACDNR4018K-151MT | 150±20%            | 100K/1V               | 0.31          | 0.22          | 2500        | 3300 |
| ACDNR4018K-221MT | 220±20%            | 100K/1V               | 0.27          | 0.17          | 4000        | 5200 |
| ACDNR4018K-331MT | 330±20%            | 100K/1V               | 0.2           | 0.14          | 6500        | 8450 |

1 : CORE SIZE      Ferrite Core

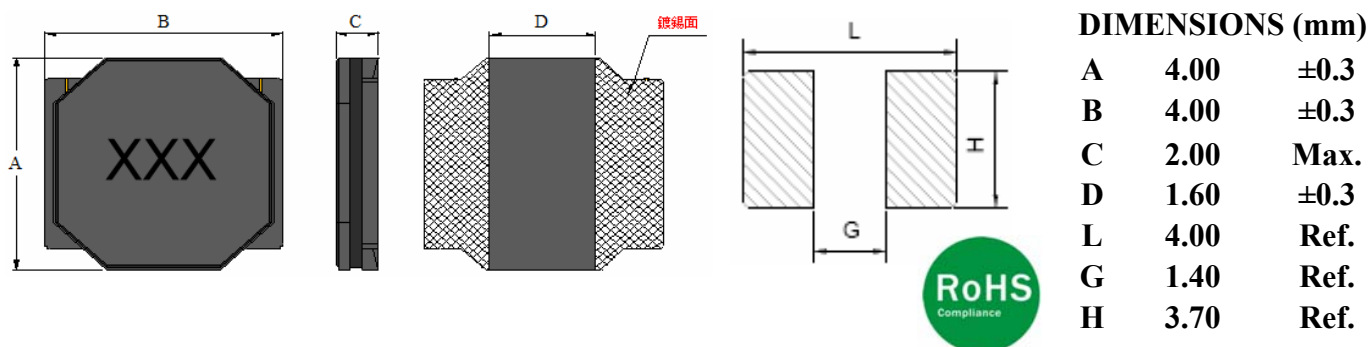
2 : SOLDER      Lead-free process (focus)

## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number     | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|------------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                  |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR4020K-1R0YT | 1.0±30%            | 100K/1V               | 4.78          | 2.15          | 29          | 38   |
| ACDNR4020K-1R2YT | 1.2±30%            | 100K/1V               | 5.1           | 2.15          | 29          | 38   |
| ACDNR4020K-1R5YT | 1.5±30%            | 100K/1V               | 4.45          | 1.98          | 35          | 46   |
| ACDNR4020K-2R2YT | 2.2±30%            | 100K/1V               | 3.4           | 1.85          | 40          | 52   |
| ACDNR4020K-3R3MT | 3.3±20%            | 100K/1V               | 3.2           | 1.4           | 70          | 91   |
| ACDNR4020K-4R7MT | 4.7±20%            | 100K/1V               | 2.35          | 1.34          | 75          | 98   |
| ACDNR4020K-5R6MT | 5.6±20%            | 100K/1V               | 2.2           | 1.22          | 90          | 117  |
| ACDNR4020K-6R8MT | 6.8±20%            | 100K/1V               | 2             | 1.04          | 125         | 163  |
| ACDNR4020K-8R2MT | 8.2±20%            | 100K/1V               | 1.75          | 1.04          | 125         | 163  |
| ACDNR4020K-100MT | 10±20%             | 100K/1V               | 1.6           | 0.9           | 165         | 215  |
| ACDNR4020K-150MT | 15±20%             | 100K/1V               | 1.35          | 0.77          | 230         | 299  |
| ACDNR4020K-220MT | 22±20%             | 100K/1V               | 1.05          | 0.62          | 350         | 455  |
| ACDNR4020K-330MT | 33±20%             | 100K/1V               | 0.85          | 0.49          | 550         | 715  |
| ACDNR4020K-470MT | 47±20%             | 100K/1V               | 0.74          | 0.44          | 710         | 923  |
| ACDNR4020K-560MT | 56±20%             | 100K/1V               | 0.66          | 0.41          | 800         | 1040 |
| ACDNR4020K-680MT | 68±20%             | 100K/1V               | 0.61          | 0.36          | 1060        | 1378 |
| ACDNR4020K-820MT | 82±20%             | 100K/1V               | 0.5           | 0.34          | 1170        | 1521 |
| ACDNR4018K-101MT | 100±20%            | 100K/1V               | 0.48          | 0.31          | 1550        | 2015 |

1 : CORE SIZE Ferrite Core

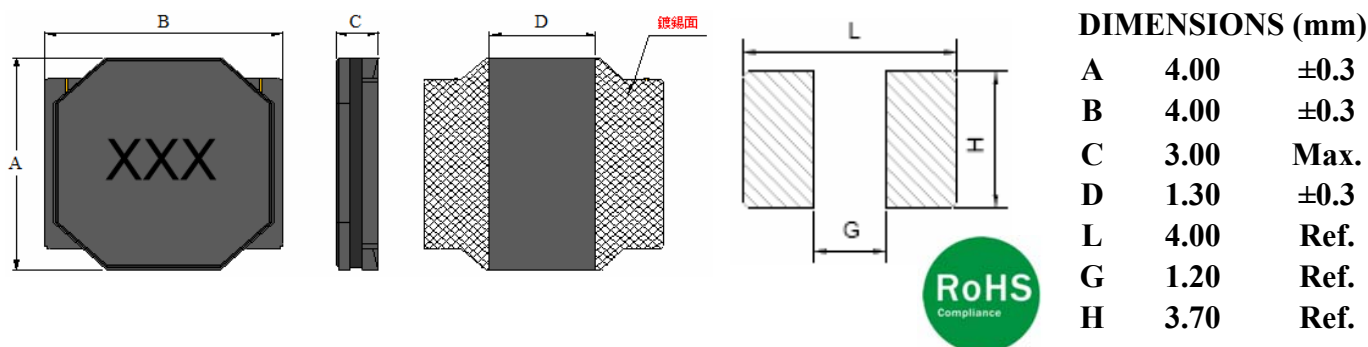
2 : SOLDER Lead-free process (focus)

## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number     | Inductance<br>(uH) | Test Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|------------------|--------------------|--------------------|---------------|---------------|-------------|------|
|                  |                    |                    | Max.          | Max.          | Typ.        | Max. |
| ACDNR4030K-1R0YT | 1.0±30%            | 100K/1V            | 5.26          | 4.14          | 16          | 21   |
| ACDNR4030K-1R5YT | 1.5±30%            | 100K/1V            | 4.84          | 3.34          | 20          | 26   |
| ACDNR4030K-2R2YT | 2.2±30%            | 100K/1V            | 4.4           | 2.95          | 30          | 39   |
| ACDNR4030K-3R3MT | 3.3±20%            | 100K/1V            | 3.3           | 2.4           | 40          | 52   |
| ACDNR4030K-4R7MT | 4.7±20%            | 100K/1V            | 2.9           | 2             | 60          | 78   |
| ACDNR4030K-6R8MT | 6.8±20%            | 100K/1V            | 2.75          | 1.6           | 90          | 117  |
| ACDNR4030K-100MT | 10±20%             | 100K/1V            | 1.95          | 1.5           | 100         | 130  |
| ACDNR4030K-150MT | 15±20%             | 100K/1V            | 1.65          | 1.11          | 190         | 247  |
| ACDNR4030K-220MT | 22±20%             | 100K/1V            | 1.3           | 1             | 225         | 293  |
| ACDNR4030K-330MT | 33±20%             | 100K/1V            | 1.1           | 0.84          | 330         | 429  |
| ACDNR4030K-470MT | 47±20%             | 100K/1V            | 0.95          | 0.72          | 445         | 579  |
| ACDNR4030K-680MT | 68±20%             | 100K/1V            | 0.72          | 0.52          | 868         | 1128 |
| ACDNR4030K-101MT | 100±20%            | 100K/1V            | 0.6           | 0.45          | 1150        | 1495 |
| ACDNR4030K-151MT | 150±20%            | 100K/1V            | 0.5           | 0.3           | 1800        | 2340 |
| ACDNR4030K-221MT | 220±20%            | 100K/1V            | 0.4           | 0.35          | 2500        | 3250 |
| ACDNR4030K-331MT | 330±20%            | 100K/1V            | 0.3           | 0.25          | 4000        | 5200 |
| ACDNR4030K-471MT | 470±20%            | 100K/1V            | 0.3           | 0.2           | 7200        | 9360 |
| ACDNR4018K-681MT | 680±20%            | 100K/1V            | 0.19          | 0.14          | 7580        | 9854 |

1 : CORE SIZE Ferrite Core

2 : SOLDER Lead-free process (focus)

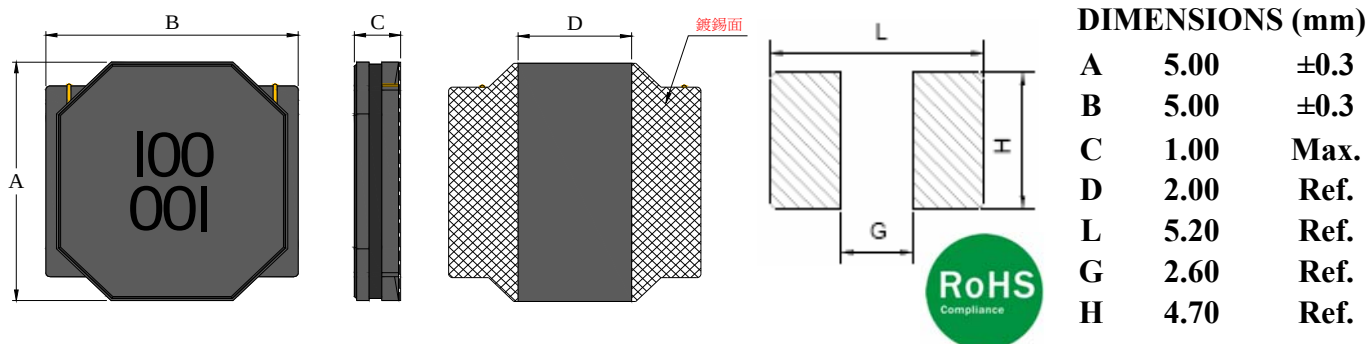
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR5010 SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number    | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|-----------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                 |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR5010-2R2MT | 2.2±20%            | 100K/1V               | 1.80          | 1.40          | -           | 135  |
| ACDNR5010-3R3NT | 3.3±25%            | 100K/1V               | 1.60          | 1.50          | 130         | 144  |
| ACDNR5010-4R7NT | 4.7±25%            | 100K/1V               | 1.30          | 1.30          | 137         | 168  |
| ACDNR5010-6R8MT | 6.8±20%            | 100K/1V               | 1.10          | 1.10          | 213         | 260  |
| ACDNR5010-100MT | 10±20%             | 100K/1V               | 0.90          | 0.90          | 383         | 460  |
| ACDNR5010-150MT | 15±20%             | 100K/1V               | 0.80          | 0.80          | 425         | 510  |
| ACDNR5010-220MT | 22±20%             | 100K/1V               | 0.70          | 0.70          | 577         | 693  |

1 : CORE SIZE 5.0-5.0-0.93

2 : SOLDER Lead-free process (focus)

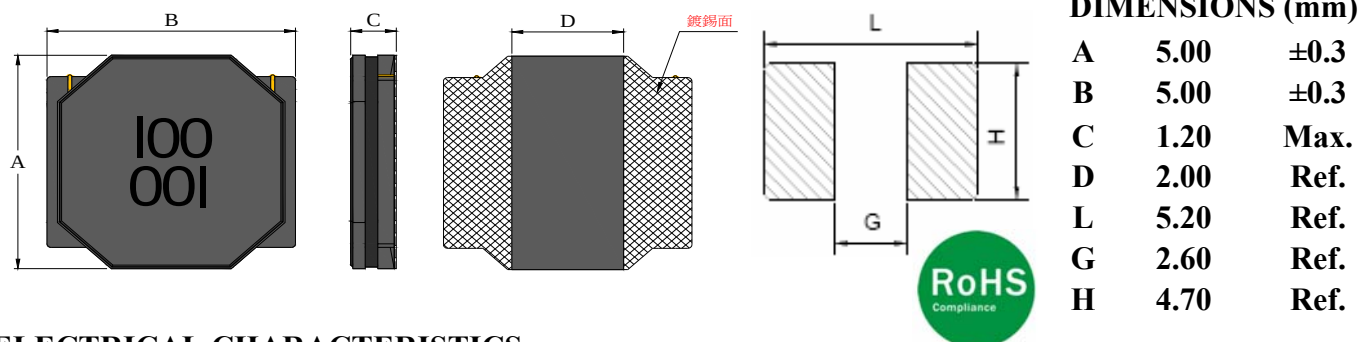
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR5012 SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number    | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|-----------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                 |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR5012-2R2NT | 2.2±25%            | 100K/1V               | 2.00          | 1.90          | 80          | 105  |
| ACDNR5012-3R3NT | 3.3±25%            | 100K/1V               | 1.90          | 1.70          | 103         | 155  |
| ACDNR5012-4R7NT | 4.7±25%            | 100K/1V               | 1.50          | 1.40          | 146         | 156  |
| ACDNR5012-6R8MT | 6.8±20%            | 100K/1V               | 1.30          | 1.30          | 167         | 192  |
| ACDNR5012-8R2MT | 8.2±20%            | 100K/1V               | 1.20          | 1.20          | 215         | 240  |
| ACDNR5012-100MT | 10±20%             | 100K/1V               | 1.00          | 1.00          | 239         | 252  |
| ACDNR5012-150MT | 15±20%             | 100K/1V               | 0.80          | 1.08          | 266         | 320  |
| ACDNR5012-220MT | 22±20%             | 100K/1V               | 0.80          | 0.60          | 738         | 880  |

- 1 : CORE SIZE 5.0-5.0-1.1
- 2 : SOLDER Lead-free process (focus)

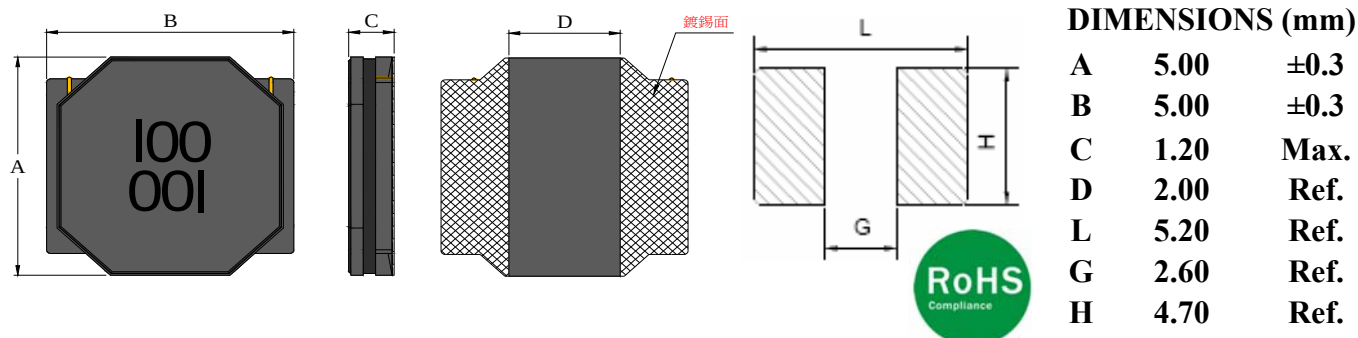
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR5012A SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number     | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|------------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                  |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR5012A-100MT | 10±20%             | 100K/1V               | 1.40          | 1.05          | 344         | 447  |

- 1 : CORE SIZE 5.0-5.0-1.05
- 2 : SOLDER Lead-free process (focus)

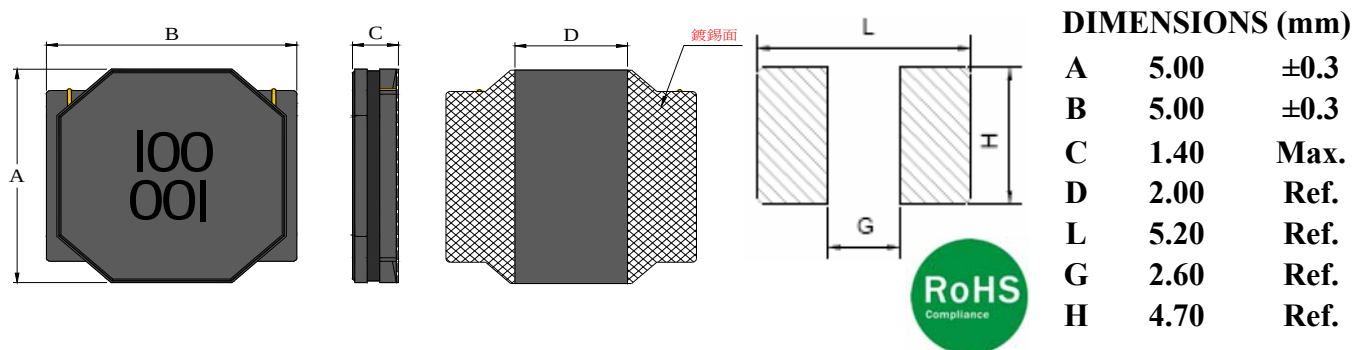
## REMARK :

- ※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)
- ※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)



# ACDNR5014 SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number    | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|-----------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                 |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR5014-2R2NT | 2.2±25%            | 100K/1V               | 3.00          | 2.50          | 109         | 150  |
| ACDNR5014-3R3NT | 3.3±25%            | 100K/1V               | 2.90          | 2.10          | 146         | 180  |
| ACDNR5014-4R7NT | 4.7±25%            | 100K/1V               | 2.40          | 1.80          | 190         | 233  |
| ACDNR5014-6R8MT | 6.8±20%            | 100K/1V               | 1.90          | 1.50          | 280         | 340  |
| ACDNR5014-100MT | 10±20%             | 100K/1V               | 1.80          | 1.20          | 365         | 438  |
| ACDNR5014-150MT | 15±20%             | 100K/1V               | 1.50          | 0.85          | 525         | 630  |
| ACDNR5014-220MT | 22±20%             | 100K/1V               | 1.20          | 0.85          | 808         | 973  |

1 : CORE SIZE 5.0-5.0-1.25

2 : SOLDER Lead-free process (focus)

## REMARK :

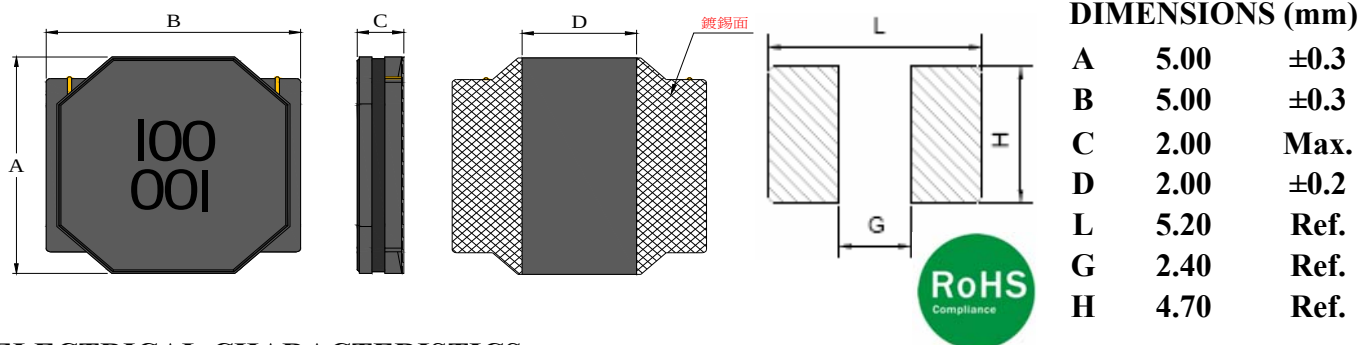
※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)



# ACDNR5020 SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number    | Inductance (uH) | Test Freq. (Hz) | Isat(A) ※1 |      | Irms(A) ※2 |      | DCR (mΩ) |      |
|-----------------|-----------------|-----------------|------------|------|------------|------|----------|------|
|                 |                 |                 | Typ.       | Max. | Typ.       | Max. | Typ.     | Max. |
| ACDNR5020-4R7MT | 4.7±20%         | 100K/1V         | -          | 2.20 | -          | 2.00 | -        | 110  |
| ACDNR5020-100MT | 10±20%          | 100K/1V         | 1.70       | -    | 1.55       | -    | 110      | 143  |

1 : CORE SIZE 5.0-5.0-1.8

2 : SOLDER Lead-free process (focus)

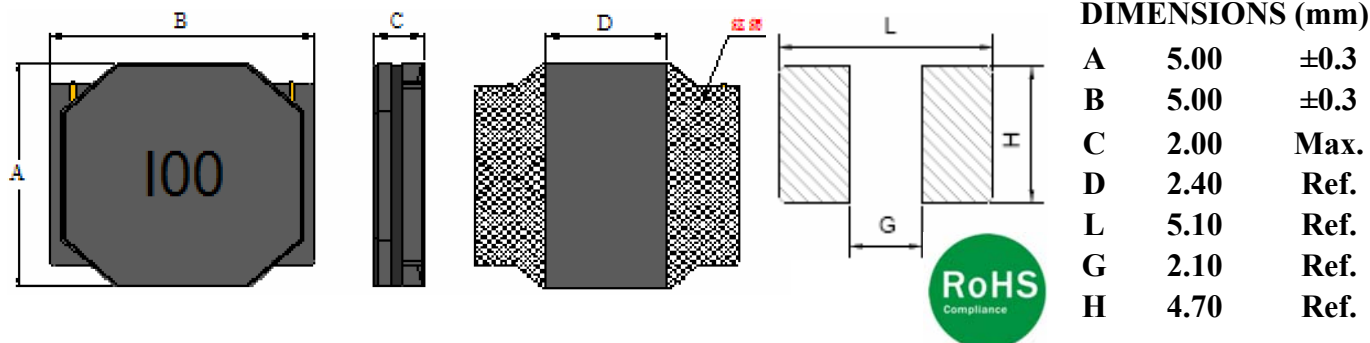
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR5020NT SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|-------------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                   |                    |                       | Typ.          | Typ.          | Typ.        | Max. |
| ACDNR5020NT-1R0YT | 1.0±30%            | 100K/1V               | 5             | 4.1           | 20          | 26   |
| ACDNR5020NT-1R2YT | 1.2±30%            | 100K/1V               | 4.8           | 3.8           | 20          | 26   |
| ACDNR5020NT-1R5YT | 1.5±30%            | 100K/1V               | 4.5           | 3.5           | 25          | 30   |
| ACDNR5020NT-2R2MT | 2.2±20%            | 100K/1V               | 4.1           | 3.3           | 32          | 38   |
| ACDNR5020NT-2R7MT | 2.7±20%            | 100K/1V               | 3.8           | 3             | 38          | 46   |
| ACDNR5020NT-3R3MT | 3.3±20%            | 100K/1V               | 3.5           | 2.8           | 43          | 52   |
| ACDNR5020NT-4R7MT | 4.7±20%            | 100K/1V               | 2.7           | 2.4           | 60          | 72   |
| ACDNR5020NT-5R6MT | 5.6±20%            | 100K/1V               | 2.4           | 2.1           | 69          | 83   |
| ACDNR5020NT-6R8MT | 6.8±20%            | 100K/1V               | 2.1           | 1.9           | 90          | 108  |
| ACDNR5020NT-8R2MT | 8.2±20%            | 100K/1V               | 1.9           | 1.75          | 98          | 118  |
| ACDNR5020NT-100MT | 10±20%             | 100K/1V               | 1.7           | 1.6           | 110         | 132  |
| ACDNR5020NT-120MT | 12±20%             | 100K/1V               | 1.4           | 1.4           | 135         | 162  |
| ACDNR5020NT-150MT | 15±20%             | 100K/1V               | 1.3           | 1.25          | 165         | 198  |
| ACDNR5020NT-180MT | 18±20%             | 100K/1V               | 1.2           | 1.17          | 190         | 228  |
| ACDNR5020NT-220MT | 22±20%             | 100K/1V               | 1.1           | 1.1           | 225         | 270  |
| ACDNR5020NT-330MT | 33±20%             | 100K/1V               | 0.8           | 0.8           | 335         | 402  |
| ACDNR5020NT-470MT | 47±20%             | 100K/1V               | 0.7           | 0.7           | 460         | 552  |

1 : CORE SIZE Ferrite Core

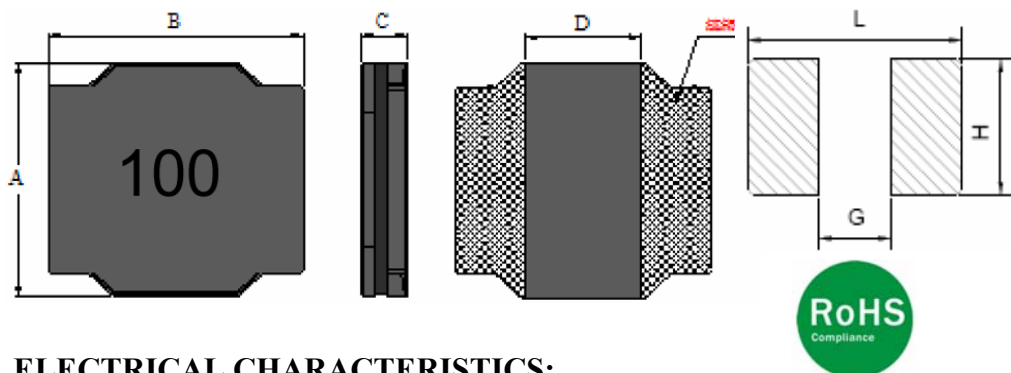
2 : SOLDER Lead-free process (focus)

## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

## MECHANICAL DIMENSION :



## DIMENSIONS (mm)

|   |      |      |
|---|------|------|
| A | 5.00 | ±0.3 |
| B | 5.00 | ±0.3 |
| C | 2.10 | Max. |
| D | 1.40 | ±0.3 |
| L | 5.50 | Ref. |
| G | 0.90 | Ref. |
| H | 4.20 | Ref. |

## ELECTRICAL CHARACTERISTICS:

| Parts Number     | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|------------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                  |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR5020K-1R0YT | 1.0±30%            | 100K/1V               | 4.1           | 3.8           | 20          | 26   |
| ACDNR5020K-1R5YT | 1.5±30%            | 100K/1V               | 4.1           | 3.2           | 30          | 39   |
| ACDNR5020K-2R2YT | 2.2±30%            | 100K/1V               | 3.2           | 2.7           | 40          | 52   |
| ACDNR5020K-3R3YT | 3.3±30%            | 100K/1V               | 2.55          | 2.3           | 50          | 65   |
| ACDNR5020K-4R7MT | 4.7±20%            | 100K/1V               | 2.5           | 2.2           | 57          | 74   |
| ACDNR5020K-6R8MT | 6.8±20%            | 100K/1V               | 2.05          | 1.8           | 83          | 108  |
| ACDNR5020K-8R2MT | 8.2±20%            | 100K/1V               | 1.85          | 1.65          | 98          | 127  |
| ACDNR5020K-100MT | 10±20%             | 100K/1V               | 1.7           | 1.55          | 120         | 156  |
| ACDNR5020K-150MT | 15±20%             | 100K/1V               | 1.35          | 1.25          | 165         | 215  |
| ACDNR5020K-180MT | 18±20%             | 100K/1V               | 1.25          | 1.15          | 200         | 260  |
| ACDNR5020K-220MT | 22±20%             | 100K/1V               | 1.15          | 1.1           | 250         | 325  |
| ACDNR5020K-330MT | 33±20%             | 100K/1V               | 0.92          | 0.9           | 400         | 520  |
| ACDNR5020K-470MT | 47±20%             | 100K/1V               | 0.77          | 0.75          | 580         | 754  |
| ACDNR5020K-680MT | 68±20%             | 100K/1V               | 0.65          | 0.64          | 740         | 962  |
| ACDNR5020K-101MT | 100±20%            | 100K/1V               | 0.53          | 0.4           | 1100        | 1430 |

- 1 : CORE SIZE Ferrite Core  
2 : SOLDER Lead-free process (focus)

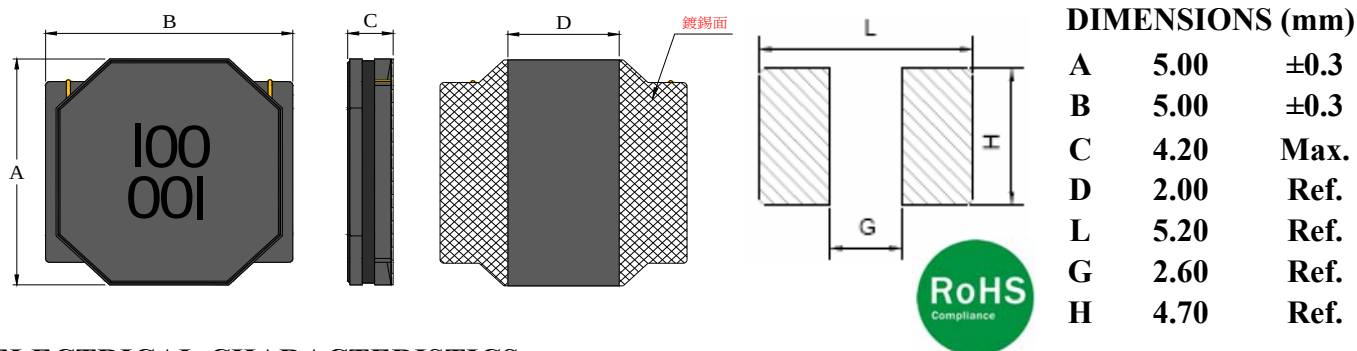
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR5040 SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number    | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |
|-----------------|--------------------|-----------------------|---------------|---------------|-------------|
|                 |                    |                       | Max.          | Max.          | Max.        |
| ACDNR5040-6R8MT | 6.8±20%            | 100K/1V               | 3.3           | 2.4           | 65          |

- 1 : CORE SIZE 5.0-5.0-3.65
- 2 : SOLDER Lead-free process (focus)

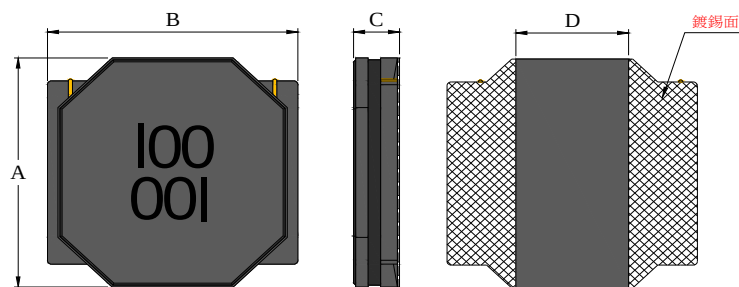
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR5040LL SERIES

## MECHANICAL DIMENSION :



## DIMENSIONS (mm)

|   |      |      |
|---|------|------|
| A | 5.00 | ±0.4 |
| B | 5.00 | ±0.4 |
| C | 4.20 | Max. |
| D | 2.00 | Ref. |
| L | 4.50 | Ref. |
| G | 1.50 | Ref. |
| H | 5.50 | Ref. |



## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|-------------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                   |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR5040LL-1R0YT | 1.0±30%            | 100K/1V               | 5.70          | 3.50          | 22          | 27   |
| ACDNR5040LL-1R5YT | 1.5±30%            | 100K/1V               | 5.70          | 3.50          | 22          | 27   |
| ACDNR5040LL-2R2NT | 2.2±25%            | 100K/1V               | 5.70          | 4.00          | 26          | 32   |
| ACDNR5040LL-3R3MT | 3.3±20%            | 100K/1V               | 3.95          | 3.40          | 32          | 39   |
| ACDNR5040LL-4R7MT | 4.7±20%            | 100K/1V               | 3.50          | 3.00          | 32          | 39   |
| ACDNR5040LL-6R8MT | 6.8±20%            | 100K/1V               | 3.30          | 2.40          | 50          | 60   |
| ACDNR5040LL-100MT | 10±20%             | 100K/1V               | 2.35          | 2.20          | 70          | 85   |
| ACDNR5040LL-150MT | 15±20%             | 100K/1V               | 2.00          | 1.80          | 80          | 96   |
| ACDNR5040LL-220MT | 22±20%             | 100K/1V               | 1.80          | 1.40          | 140         | 168  |
| ACDNR5040LL-330MT | 33±20%             | 100K/1V               | 1.20          | 1.20          | 225         | 270  |
| ACDNR5040LL-470MT | 47±20%             | 100K/1V               | 1.10          | 1.00          | 266         | 320  |
| ACDNR5040LL-101MT | 100±20%            | 100K/1V               | 0.75          | 0.70          | 606         | 728  |

1 : CORE SIZE 5.0-5.0-3.85

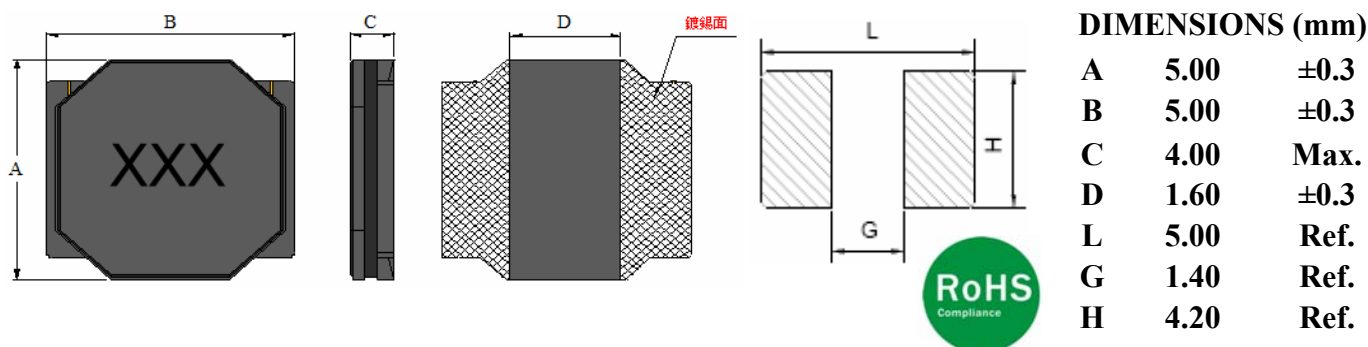
2 : SOLDER Lead-free process (focus)

## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number     | Inductance (uH) | Test Freq. (Hz) | Isat(A) ※1 | Irms(A) ※2 | DCR (mΩ) |       |
|------------------|-----------------|-----------------|------------|------------|----------|-------|
|                  |                 |                 | Max.       | Max.       | Typ.     | Max.  |
| ACDNR5040K-1R0YT | 1.0±30%         | 100K/1V         | 7.35       | 4.9        | 12       | 16    |
| ACDNR5040K-1R2YT | 1.2±30%         | 100K/1V         | 6.5        | 4.15       | 16       | 21    |
| ACDNR5040K-1R5YT | 1.5±30%         | 100K/1V         | 6.3        | 4          | 18       | 23    |
| ACDNR5040K-2R2YT | 2.2±30%         | 100K/1V         | 4.9        | 3.8        | 19       | 25    |
| ACDNR5040K-3R3YT | 3.3±30%         | 100K/1V         | 3.95       | 3.4        | 24       | 31    |
| ACDNR5040K-4R7MT | 4.7±20%         | 100K/1V         | 3.5        | 3          | 32       | 42    |
| ACDNR5040K-5R6MT | 5.6±20%         | 100K/1V         | 3          | 2.8        | 35       | 46    |
| ACDNR5040K-6R8MT | 6.8±20%         | 100K/1V         | 2.9        | 2.5        | 43       | 56    |
| ACDNR5040K-100MT | 10±20%          | 100K/1V         | 2.35       | 2.1        | 64       | 83    |
| ACDNR5040K-150MT | 15±20%          | 100K/1V         | 2          | 2          | 86       | 112   |
| ACDNR5040K-220MT | 22±20%          | 100K/1V         | 1.6        | 1.5        | 129      | 168   |
| ACDNR5040K-330MT | 33±20%          | 100K/1V         | 1.3        | 1.2        | 188      | 153   |
| ACDNR5040K-470MT | 47±20%          | 100K/1V         | 1.1        | 1          | 272      | 354   |
| ACDNR5040K-680MT | 68±20%          | 100K/1V         | 0.9        | 0.8        | 400      | 520   |
| ACDNR5040K-101MT | 100±20%         | 100K/1V         | 0.75       | 0.7        | 560      | 728   |
| ACDNR5040K-151MT | 150±20%         | 100K/1V         | 0.65       | 0.6        | 750      | 975   |
| ACDNR5040K-221MT | 220±20%         | 100K/1V         | 0.4        | 0.38       | 1280     | 1664  |
| ACDNR4030K-102MT | 1000±20%        | 100K/1V         | 0.25       | 0.25       | 6200     | 8060  |
| ACDNR4018K-222MT | 2200±20%        | 100K/1V         | 0.1        | 0.1        | 13000    | 16900 |

1 : CORE SIZE Ferrite Core

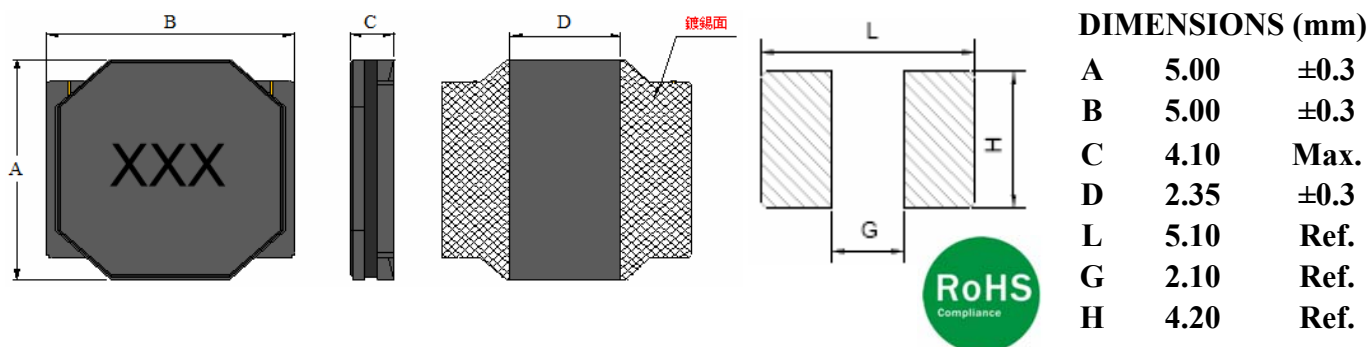
2 : SOLDER Lead-free process (focus)

## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance (uH) | Test Freq. (Hz) | Isat(A) ※1 | Irms(A) ※2 | DCR (mΩ) |      |
|-------------------|-----------------|-----------------|------------|------------|----------|------|
|                   |                 |                 | Typ.       | Typ.       | Typ.     | Max. |
| ACDNR5040NT-R60YT | 0.6±30%         | 100K/1V         | 11         | 8          | 8        | 9.6  |
| ACDNR5040NT-1R0YT | 1.0±30%         | 100K/1V         | 7.5        | 5          | 12       | 14.4 |
| ACDNR5040NT-1R5YT | 1.5±30%         | 100K/1V         | 6.5        | 4.5        | 15       | 18   |
| ACDNR5040NT-1R8MT | 1.8±20%         | 100K/1V         | 6.1        | 4.2        | 18       | 22   |
| ACDNR5040NT-2R2MT | 2.2±20%         | 100K/1V         | 5.7        | 3.8        | 21       | 25   |
| ACDNR5040NT-3R3MT | 3.3±20%         | 100K/1V         | 4.4        | 3.5        | 24       | 29   |
| ACDNR5040NT-4R7MT | 4.7±20%         | 100K/1V         | 3.9        | 3.2        | 32       | 38   |
| ACDNR5040NT-6R8MT | 6.8±20%         | 100K/1V         | 3.3        | 2.5        | 43       | 52   |
| ACDNR5040NT-100MT | 10±20%          | 100K/1V         | 2.52       | 2.2        | 56       | 67   |
| ACDNR5040NT-150MT | 15±20%          | 100K/1V         | 2          | 1.8        | 80       | 96   |
| ACDNR5040NT-220MT | 22±20%          | 100K/1V         | 1.62       | 1.5        | 123      | 148  |
| ACDNR5040NT-330MT | 33±20%          | 100K/1V         | 1.3        | 1.2        | 180      | 216  |
| ACDNR5040NT-470MT | 47±20%          | 100K/1V         | 1.1        | 1          | 270      | 324  |
| ACDNR5040NT-680MT | 68±20%          | 100K/1V         | 0.9        | 0.8        | 400      | 480  |
| ACDNR5040NT-820MT | 82±20%          | 100K/1V         | 0.78       | 0.75       | 490      | 588  |
| ACDNR5040NT-101MT | 100±20%         | 100K/1V         | 0.75       | 0.72       | 560      | 672  |
| ACDNR5040NT-221MT | 220±20%         | 100K/1V         | 0.62       | 0.55       | 1500     | 1800 |

1 : CORE SIZE Ferrite Core

2 : SOLDER Lead-free process (focus)

## REMARK :

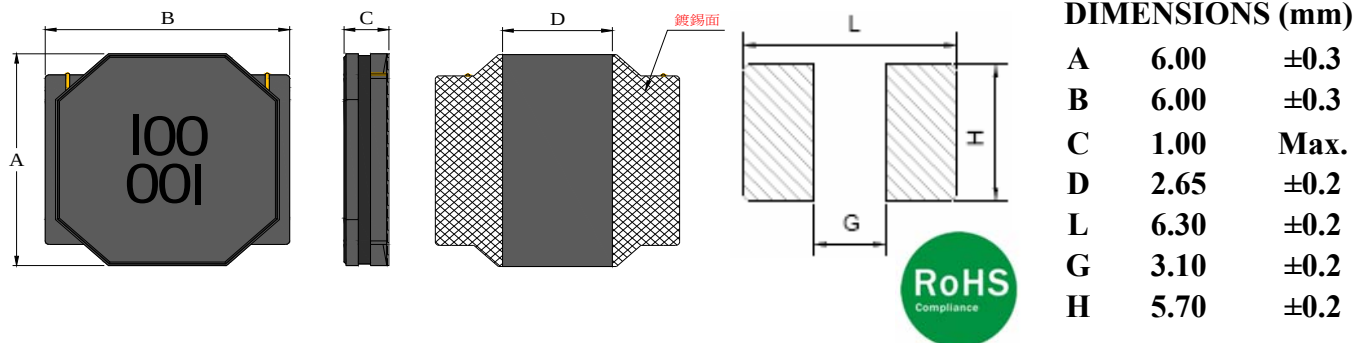
※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)



# ACDNR6010 SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number    | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|-----------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                 |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR6010-2R2NT | 2.2±25%            | 100K/1V               | 2.60          | 2.00          | 120         | 140  |
| ACDNR6010-3R3NT | 3.3±25%            | 100K/1V               | 2.00          | 1.70          | 178         | 217  |
| ACDNR6010-4R7MT | 4.7±20%            | 100K/1V               | 1.75          | 1.75          | -           | 255  |
| ACDNR6010-6R8MT | 6.8±20%            | 100K/1V               | 1.60          | 1.60          | 270         | 325  |
| ACDNR6010-8R2MT | 8.2±20%            | 100K/1V               | 1.20          | 1.20          | 355         | 425  |
| ACDNR6010-100MT | 10±20%             | 100K/1V               | 1.20          | 1.05          | 333         | 400  |
| ACDNR6010-150MT | 15±20%             | 100K/1V               | 0.90          | 0.90          | 558         | 670  |

1 : CORE SIZE 6.0-6.0-0.93

2 : SOLDER Lead-free process (focus)

## REMARK :

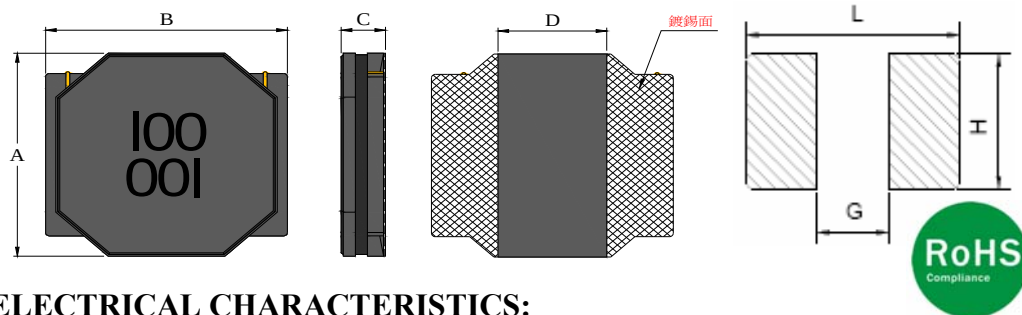
※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)



# ACDNR6012 SERIES

## MECHANICAL DIMENSION :



## DIMENSIONS (mm)

|   |      |      |
|---|------|------|
| A | 6.00 | ±0.3 |
| B | 6.00 | ±0.3 |
| C | 1.20 | Max. |
| D | 2.70 | Ref. |
| L | 6.30 | Ref. |
| G | 3.10 | Ref. |
| H | 5.70 | Ref. |

## ELECTRICAL CHARACTERISTICS:

| Parts Number    | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|-----------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                 |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR6012-2R2NT | 2.2±25%            | 100K/1V               | 2.50          | 2.10          | 95          | 113  |
| ACDNR6012-3R3NT | 3.3±25%            | 100K/1V               | 1.90          | 1.90          | 150         | 163  |
| ACDNR6012-4R7NT | 4.7±25%            | 100K/1V               | 1.70          | 1.40          | 170         | 220  |
| ACDNR6012-6R8MT | 6.8±20%            | 100K/1V               | 1.60          | 1.20          | 204         | 260  |
| ACDNR6012-8R2MT | 8.2±20%            | 100K/1V               | 1.50          | 1.15          | 267         | 320  |
| ACDNR6012-100MT | 10±20%             | 100K/1V               | 1.40          | 1.10          | 278         | 430  |
| ACDNR6012-150MT | 15±20%             | 100K/1V               | 1.20          | 1.00          | 490         | 588  |
| ACDNR6012-220MT | 22±20%             | 100K/1V               | 0.90          | 0.70          | 816         | 980  |

1 : CORE SIZE 6.0-6.0-1.08

2 : SOLDER Lead-free process (focus)

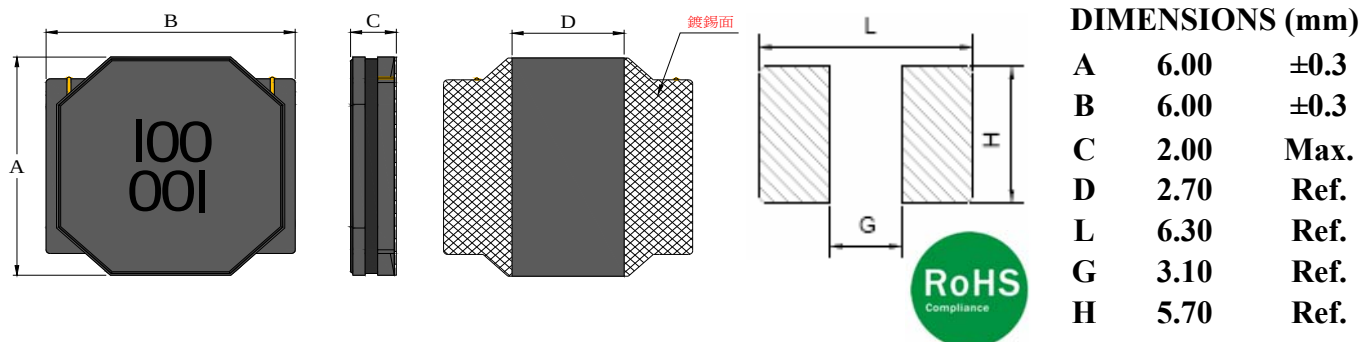
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR6020 SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number    | Inductance (uH) | Test Freq. (Hz) | Isat(A) ※1 | Irms(A) ※2 | DCR (mΩ) |
|-----------------|-----------------|-----------------|------------|------------|----------|
|                 |                 |                 | Max.       | Max.       | Max.     |
| ACDNR6020-2R2MT | 2.2±20%         | 100K/1V         | 5.0        | 2.9        | 55       |
| ACDNR6020-100MT | 10±20%          | 100K/1V         | 1.9        | 1.6        | 180      |

1 : CORE SIZE 6.0-6.0-1.8

2 : SOLDER Lead-free process (focus)

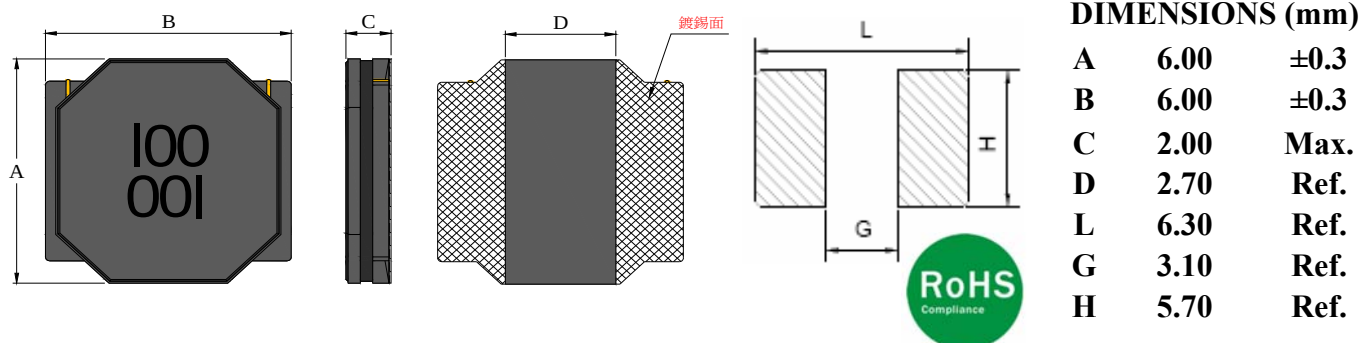
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR6020LL SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|-------------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                   |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR6020LL-1R0YT | 1.0±30%            | 100K/1V               | 5.70          | 4.10          | 23          | 28   |
| ACDNR6020LL-2R2MT | 2.2±20%            | 100K/1V               | 4.00          | 2.90          | 45          | 55   |
| ACDNR6020LL-3R3NT | 3.3±25%            | 100K/1V               | 3.20          | 2.50          | 62          | 75   |
| ACDNR6020LL-4R7MT | 4.7±20%            | 100K/1V               | 2.80          | 2.40          | 75          | 90   |
| ACDNR6020LL-6R8MT | 6.8±20%            | 100K/1V               | 2.40          | 2.10          | 95          | 115  |
| ACDNR6020LL-100MT | 10±20%             | 100K/1V               | 2.00          | 2.00          | 150         | 180  |
| ACDNR6020LL-150MT | 15±20%             | 100K/1V               | 1.60          | 1.60          | 208         | 250  |
| ACDNR6020LL-220MT | 22±20%             | 100K/1V               | 1.40          | 1.20          | 317         | 380  |

1 : CORE SIZE 6.0-6.0-1.8

2 : SOLDER Lead-free process (focus)

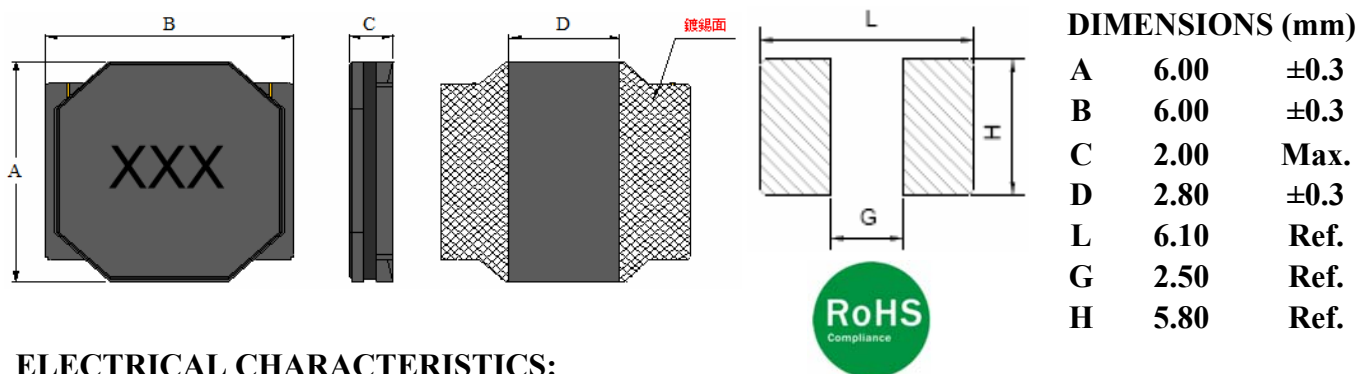
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR6020NT SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 |      | Irms(A)<br>※2 |      | DCR<br>(mΩ) |      |
|-------------------|--------------------|-----------------------|---------------|------|---------------|------|-------------|------|
|                   |                    |                       | Typ.          | Max. | Typ.          | Max. | Typ.        | Max. |
| ACDNR6020NT-R80MT | 0.8±20%            | 100K/1V               | 5.5           | 5    | 5.5           | 5    | 16          | 19   |
| ACDNR6020NT-1R0MT | 1.0±20%            | 100K/1V               | 4.5           | 4    | 4.5           | 4    | 19          | 23   |
| ACDNR6020NT-1R5MT | 1.5±20%            | 100K/1V               | 3.8           | 3.3  | 3.8           | 3.3  | 22.5        | 27   |
| ACDNR6020NT-2R0MT | 2.0±20%            | 100K/1V               | 3.65          | 3.3  | 3.65          | 3.3  | 25          | 30   |
| ACDNR6020NT-2R2MT | 2.2±20%            | 100K/1V               | 3.5           | 3.2  | 3.5           | 3.2  | 29          | 35   |
| ACDNR6020NT-3R3MT | 3.3±20%            | 100K/1V               | 3.3           | 3    | 3.3           | 3    | 35          | 42   |
| ACDNR6020NT-4R7MT | 4.7±20%            | 100K/1V               | 2.8           | 2.5  | 2.8           | 2.5  | 54          | 65   |
| ACDNR6020NT-5R6MT | 5.6±20%            | 100K/1V               | 2.6           | 2.3  | 2.6           | 2.3  | 59          | 71   |
| ACDNR6020NT-6R8MT | 6.8±20%            | 100K/1V               | 2.5           | 2.2  | 2.5           | 2.2  | 78          | 94   |
| ACDNR6020NT-8R2MT | 8.2±20%            | 100K/1V               | 2.3           | 2    | 2.3           | 2    | 103         | 124  |
| ACDNR6020NT-100MT | 10±20%             | 100K/1V               | 2.1           | 1.9  | 2.1           | 1.9  | 106         | 127  |
| ACDNR6020NT-150MT | 15±20%             | 100K/1V               | 1.6           | 1.4  | 1.6           | 1.4  | 138         | 166  |
| ACDNR6020NT-220MT | 22±20%             | 100K/1V               | 1.4           | 1.1  | 1.4           | 1.1  | 204         | 245  |
| ACDNR6020NT-330MT | 33±20%             | 100K/1V               | 1.3           | 1.1  | 1.3           | 1.1  | 340         | 408  |

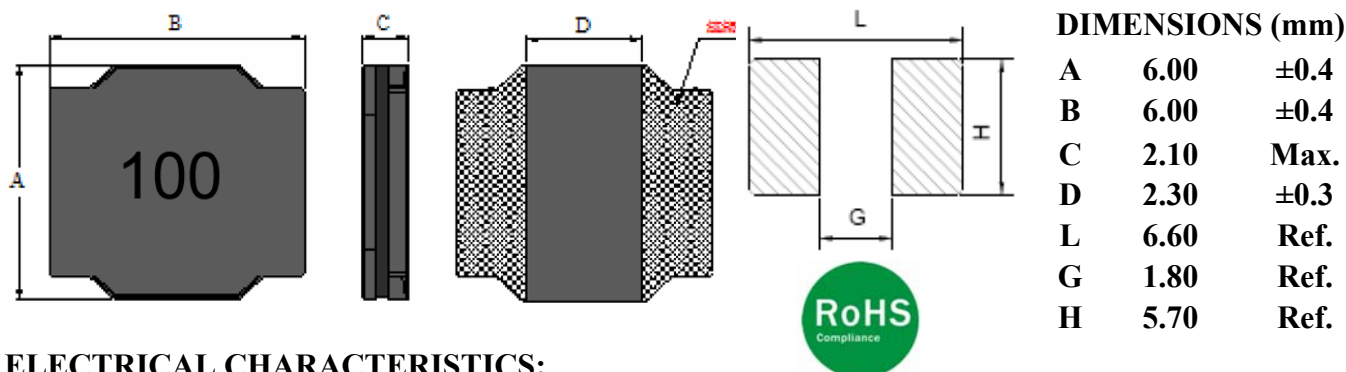
- 1 : CORE SIZE      Ferrite Core
- 2 : SOLDER      Lead-free process (focus)

## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number     | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |       |
|------------------|--------------------|-----------------------|---------------|---------------|-------------|-------|
|                  |                    |                       | Max.          | Max.          | Typ.        | Max.  |
| ACDNR6020K-R68YT | 0.68±30%           | 100K/1V               | 6.55          | 3.8           | 17          | 22    |
| ACDNR6020K-R82YT | 0.82±30%           | 100K/1V               | 5.3           | 3.8           | 17          | 22    |
| ACDNR6020K-1R0YT | 1.0±30%            | 100K/1V               | 4.15          | 3.5           | 20          | 26    |
| ACDNR6020K-1R5YT | 1.5±30%            | 100K/1V               | 4.25          | 3.2           | 22          | 29    |
| ACDNR6020K-2R2YT | 2.2±30%            | 100K/1V               | 3.75          | 2.75          | 28          | 36    |
| ACDNR6020K-3R3YT | 3.3±30%            | 100K/1V               | 3.15          | 2.6           | 35          | 46    |
| ACDNR6020K-4R7MT | 4.7±20%            | 100K/1V               | 3             | 2             | 58          | 75.4  |
| ACDNR6020K-6R8MT | 6.8±20%            | 100K/1V               | 2.2           | 1.8           | 79          | 103   |
| ACDNR6020K-100MT | 10±20%             | 100K/1V               | 1.75          | 1.4           | 105         | 136.5 |
| ACDNR6020K-120MT | 12±20%             | 100K/1V               | 1.45          | 1.3           | 120         | 156   |
| ACDNR6020K-150MT | 15±20%             | 100K/1V               | 1.2           | 1.2           | 145         | 189   |
| ACDNR6020K-180MT | 18±20%             | 100K/1V               | 1.2           | 1.08          | 180         | 234   |
| ACDNR6020K-220MT | 22±20%             | 100K/1V               | 1.05          | 1             | 204         | 265   |
| ACDNR6020K-330MT | 33±20%             | 100K/1V               | 0.95          | 0.84          | 300         | 390   |
| ACDNR6020K-470MT | 47±20%             | 100K/1V               | 0.7           | 0.8           | 430         | 559   |

- 1 : CORE SIZE      Ferrite Core
- 2 : SOLDER      Lead-free process (focus)

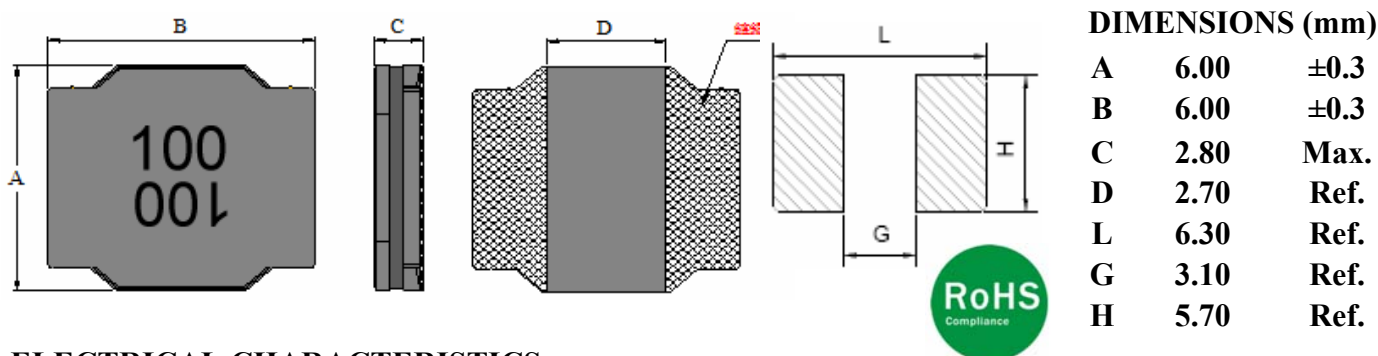
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR6028LL SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |
|-------------------|--------------------|-----------------------|---------------|---------------|-------------|
|                   |                    |                       | Max.          | Max.          | Max.        |
| ACDNR6028LL-4R7MT | 4.7±20%            | 100K/1V               | 3             | 3.08          | 39          |
| ACDNR6028LL-100MT | 10±20%             | 100K/1V               | 2.04          | 1.95          | 93.6        |
| ACDNR6028LL-680MT | 68±20%             | 100K/1V               | 0.78          | 0.75          | 520         |

1 : CORE SIZE 6.0-6.0-2.6

2 : SOLDER Lead-free process (focus)

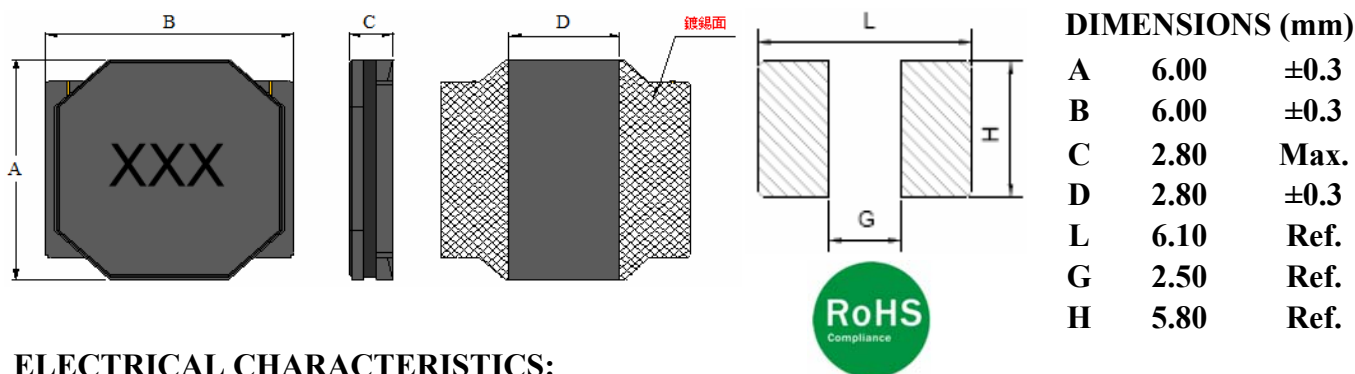
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR6028NT SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|-------------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                   |                    |                       | Typ.          | Typ.          | Typ.        | Max. |
| ACDNR6028NT-1R0YT | 1.0±30%            | 100K/1V               | 5.75          | 5.2           | 10          | 12   |
| ACDNR6028NT-1R5YT | 1.5±30%            | 100K/1V               | 5.3           | 4.95          | 14          | 17   |
| ACDNR6028NT-2R2MT | 2.2±20%            | 100K/1V               | 5             | 4.5           | 18          | 22   |
| ACDNR6028NT-3R3MT | 3.3±20%            | 100K/1V               | 4.3           | 3.6           | 24          | 29   |
| ACDNR6028NT-4R7MT | 4.7±20%            | 100K/1V               | 3.2           | 3.1           | 30          | 36   |
| ACDNR6028NT-6R8MT | 6.8±20%            | 100K/1V               | 2.85          | 2.5           | 47          | 56   |
| ACDNR6028NT-100MT | 10±20%             | 100K/1V               | 2.1           | 2             | 65          | 78   |
| ACDNR6028NT-150MT | 15±20%             | 100K/1V               | 2             | 1.8           | 98          | 118  |
| ACDNR6028NT-220MT | 22±20%             | 100K/1V               | 1.6           | 1.5           | 138         | 166  |
| ACDNR6028NT-330MT | 33±20%             | 100K/1V               | 1.4           | 1.3           | 200         | 240  |
| ACDNR6028NT-470MT | 47±20%             | 100K/1V               | 1.15          | 1.06          | 280         | 336  |
| ACDNR6028NT-680MT | 68±20%             | 100K/1V               | 1             | 0.81          | 420         | 504  |
| ACDNR6028NT-101MT | 100±20%            | 100K/1V               | 0.8           | 0.72          | 605         | 726  |

- 1 : CORE SIZE Ferrite Core
- 2 : SOLDER Lead-free process (focus)

## REMARK :

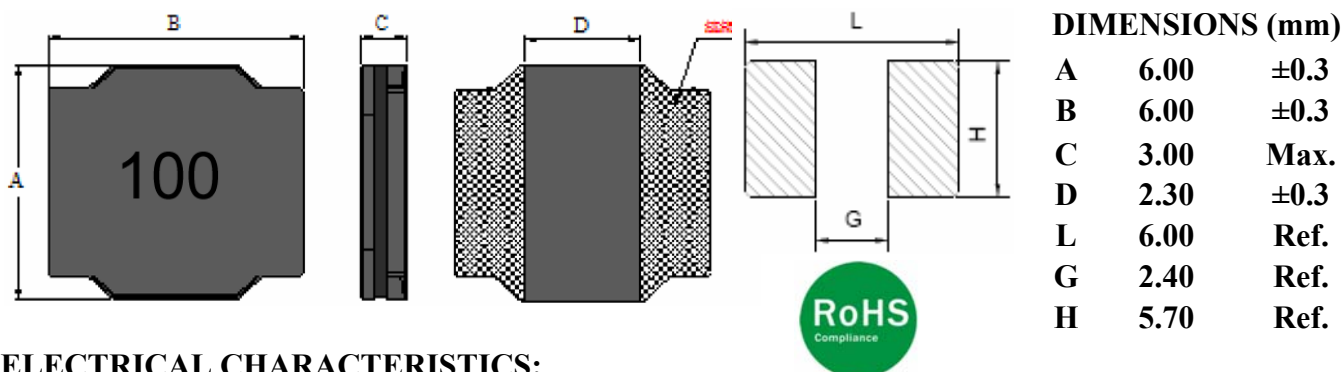
※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)



# ACDNR6028K SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number     | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|------------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                  |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR6028K-1R0YT | 1.0±30%            | 100K/1V               | 5.75          | 5.2           | 12          | 16   |
| ACDNR6028K-1R5YT | 1.5±30%            | 100K/1V               | 6             | 4.58          | 15          | 20   |
| ACDNR6028K-2R2YT | 2.2±30%            | 100K/1V               | 5.1           | 3.75          | 20          | 26   |
| ACDNR6028K-3R3YT | 3.3±30%            | 100K/1V               | 4.15          | 3.48          | 25          | 33   |
| ACDNR6028K-4R7YT | 4.7±30%            | 100K/1V               | 3             | 3.08          | 30          | 39   |
| ACDNR6028K-6R8MT | 6.8±20%            | 100K/1V               | 2.6           | 2.4           | 47          | 61   |
| ACDNR6028K-100MT | 10±20%             | 100K/1V               | 2.04          | 1.95          | 72          | 94   |
| ACDNR6028K-120MT | 12±20%             | 100K/1V               | 1.8           | 1.85          | 80          | 104  |
| ACDNR6028K-150MT | 15±20%             | 100K/1V               | 1.75          | 1.45          | 125         | 163  |
| ACDNR6028K-180MT | 18±20%             | 100K/1V               | 1.52          | 1.45          | 120         | 156  |
| ACDNR6028K-220MT | 22±20%             | 100K/1V               | 1.45          | 1.4           | 140         | 182  |
| ACDNR6028K-330MT | 33±20%             | 100K/1V               | 1.35          | 1.22          | 185         | 241  |
| ACDNR6028K-470MT | 47±20%             | 100K/1V               | 1.15          | 1.06          | 315         | 410  |
| ACDNR6028K-680MT | 68±20%             | 100K/1V               | 0.8           | 0.86          | 360         | 468  |
| ACDNR6028K-820MT | 82±20%             | 100K/1V               | 0.8           | 0.7           | 500         | 650  |
| ACDNR6028K-101MT | 100±20%            | 100K/1V               | 0.65          | 0.7           | 500         | 650  |
| ACDNR6020K-102MT | 1000±20%           | 100K/1V               | 0.18          | 0.2           | 5800        | 7540 |

- 1 : CORE SIZE Ferrite Core
- 2 : SOLDER Lead-free process (focus)

## REMARK :

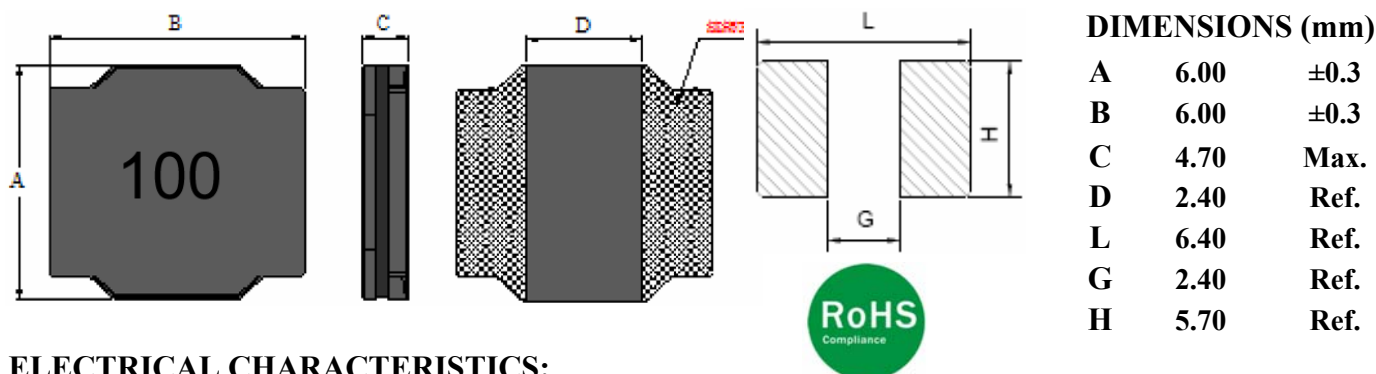
※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)



# ACDNR6045 SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number    | Inductance (uH) | Test Freq. (Hz) | Isat(A)<br>※1 |       | Irms(A)<br>※2 |      | DCR (mΩ) |      |
|-----------------|-----------------|-----------------|---------------|-------|---------------|------|----------|------|
|                 |                 |                 | Typ.          | Max.  | Typ.          | Max. | Typ.     | Max. |
| ACDNR6045-1R0YT | 1.0±30%         | 100K/1V         | 12.2          | 10.98 | 6.5           | 5.85 | 12       | 16   |
| ACDNR6045-1R5YT | 1.5±30%         | 100K/1V         | 10.4          | 9.36  | 5.9           | 5.31 | 15       | 20   |
| ACDNR6045-1R8YT | 1.8±30%         | 100K/1V         | 9.6           | 8.64  | 5.6           | 5.04 | 17       | 23   |
| ACDNR6045-2R2YT | 2.2±30%         | 100K/1V         | 8.8           | 7.92  | 5.1           | 4.59 | 18.4     | 24   |
| ACDNR6045-2R3YT | 2.3±30%         | 100K/1V         | 8.8           | 7.92  | 5             | 4.5  | 19       | 25   |
| ACDNR6045-3R0NT | 3.0±25%         | 100K/1V         | 7.8           | 7.02  | 4.4           | 3.96 | 22       | 29   |
| ACDNR6045-3R3NT | 3.3±25%         | 100K/1V         | 7.5           | 6.75  | 4.3           | 3.87 | 24       | 32   |
| ACDNR6045-3R6NT | 3.6±25%         | 100K/1V         | 7.5           | 6.75  | 4.3           | 3.87 | 24       | 32   |
| ACDNR6045-3R9NT | 3.9±25%         | 100K/1V         | 7             | 6.3   | 4             | 3.6  | 26       | 34   |
| ACDNR6045-4R5MT | 4.5±25%         | 100K/1V         | 6.7           | 6.03  | 3.9           | 3.51 | 31       | 41   |
| ACDNR6045-4R7MT | 4.7±25%         | 100K/1V         | 6.7           | 6.03  | 3.9           | 3.51 | 31       | 41   |
| ACDNR6045-5R1MT | 5.1±20%         | 100K/1V         | 6             | 5.4   | 3.5           | 3.15 | 33       | 43   |
| ACDNR6045-6R3MT | 6.3±20%         | 100K/1V         | 5.5           | 4.95  | 3.3           | 2.97 | 40       | 52   |
| ACDNR6045-6R8MT | 6.8±20%         | 100K/1V         | 5.3           | 4.77  | 3.2           | 2.88 | 43       | 56   |
| ACDNR6045-100MT | 10±20%          | 100K/1V         | 4.5           | 4.05  | 2.7           | 2.43 | 57       | 75   |
| ACDNR6045-150MT | 15±20%          | 100K/1V         | 3.4           | 3.06  | 2.2           | 1.98 | 80       | 104  |
| ACDNR6045-180MT | 18±20%          | 100K/1V         | 3.1           | 2.79  | 1.8           | 1.62 | 100      | 130  |
| ACDNR6045-220MT | 22±20%          | 100K/1V         | 3             | 2.7   | 1.9           | 1.71 | 125      | 163  |
| ACDNR6045-270MT | 27±20%          | 100K/1V         | 2.5           | 2.25  | 1.3           | 1.17 | 160      | 208  |
| ACDNR6045-330MT | 33±20%          | 100K/1V         | 2.3           | 2.07  | 1.4           | 1.26 | 165      | 215  |
| ACDNR6045-470MT | 47±20%          | 100K/1V         | 1.9           | 1.71  | 1.2           | 1.08 | 245      | 319  |
| ACDNR6045-680MT | 68±20%          | 100K/1V         | 1.6           | 1.44  | 1             | 0.9  | 330      | 429  |
| ACDNR6045-101MT | 100±20%         | 100K/1V         | 1.3           | 1.17  | 0.9           | 0.72 | 500      | 650  |
| ACDNR6045-331MT | 330±20%         | 100K/1V         | 0.7           | 0.63  | 0.35          | 0.31 | 1800     | 2340 |
| ACDNR6045-102MT | 1000±20%        | 100K/1V         | 0.4           | 0.36  | 0.22          | 0.19 | 6000     | 7800 |

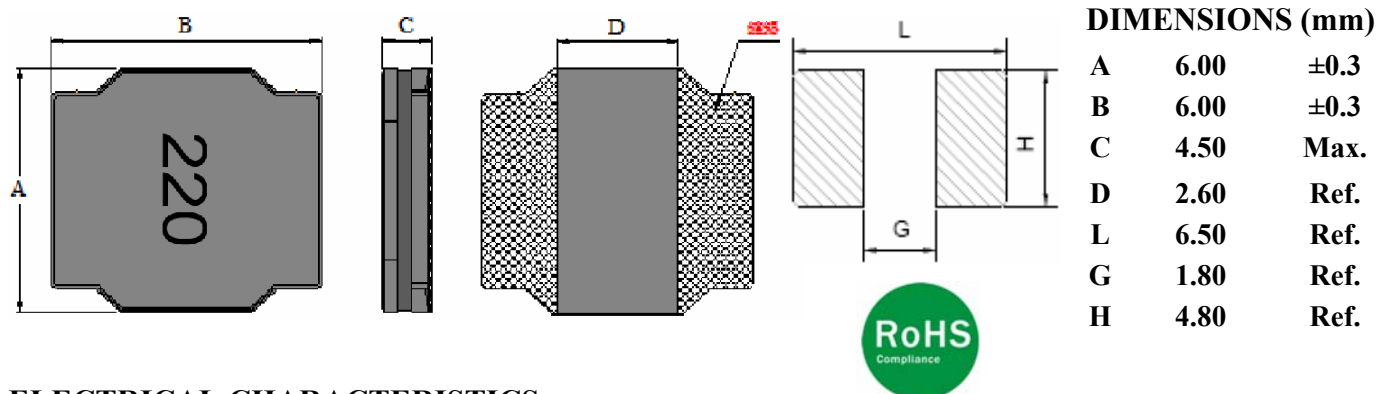
- 1 : CORE SIZE Ferrite Core  
2 : SOLDER Lead-free process (focus)

## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance<br>(uH) | Test Freq.<br>(Hz) | Isat(A)<br>※1 |      | Irms(A)<br>※2 |      | DCR<br>(mΩ) |      |
|-------------------|--------------------|--------------------|---------------|------|---------------|------|-------------|------|
|                   |                    |                    | Typ.          | Max. | Typ.          | Max. | Typ.        | Max. |
| ACDNR6045NT-1R0MT | 1.0±20%            | 100K/1V            | 13.5          | 12   | 8             | 7.3  | 10          | 12   |
| ACDNR6045NT-1R2MT | 1.2±20%            | 100K/1V            | 12.5          | 11.5 | 7.5           | 7    | 10.5        | 13   |
| ACDNR6045NT-1R5MT | 1.5±20%            | 100K/1V            | 12            | 9.5  | 7             | 6.6  | 11.7        | 14   |
| ACDNR6045NT-1R8MT | 1.8±20%            | 100K/1V            | 11            | 9    | 6.8           | 6.2  | 12          | 14   |
| ACDNR6045NT-2R0MT | 2.0±20%            | 100K/1V            | 10.5          | 8.5  | 6.5           | 5.8  | 13.5        | 16   |
| ACDNR6045NT-2R2MT | 2.2±20%            | 100K/1V            | 9.5           | 8.4  | 6             | 5.3  | 15          | 18   |
| ACDNR6045NT-2R3MT | 10±20%             | 100K/1V            | 9.3           | 8.2  | 5.8           | 5    | 16          | 19   |
| ACDNR6045NT-3R3MT | 15±20%             | 100K/1V            | 7.8           | 7    | 5             | 4.5  | 21          | 25   |
| ACDNR6045NT-3R6MT | 1.0±20%            | 100K/1V            | 7.4           | 6.9  | 4.9           | 4.3  | 22.5        | 27   |
| ACDNR6045NT-4R7MT | 1.5±20%            | 100K/1V            | 6.8           | 6.2  | 4.5           | 4    | 26          | 31   |
| ACDNR6045NT-5R6MT | 2.2±20%            | 100K/1V            | 6.4           | 5.7  | 4.1           | 3.7  | 31          | 37   |
| ACDNR6045NT-6R3MT | 3.3±20%            | 100K/1V            | 5.9           | 5.3  | 3.8           | 3.5  | 33          | 40   |
| ACDNR6045NT-6R8MT | 4.7±20%            | 100K/1V            | 5.7           | 5.15 | 3.6           | 3.3  | 34          | 41   |
| ACDNR6045NT-100MT | 6.8±20%            | 100K/1V            | 4.6           | 3.8  | 3.2           | 2.6  | 52          | 62   |
| ACDNR6045NT-150MT | 10±20%             | 100K/1V            | 3.8           | 3.1  | 2.8           | 2.2  | 71          | 85   |
| ACDNR6045NT-220MT | 15±20%             | 100K/1V            | 3.3           | 2.3  | 2.3           | 1.9  | 96          | 115  |
| ACDNR6045NT-330MT | 1.5±20%            | 100K/1V            | 2.5           | 1.8  | 1.8           | 1.5  | 145         | 174  |
| ACDNR6045NT-470MT | 2.2±20%            | 100K/1V            | 2             | 1.75 | 1.6           | 1.2  | 200         | 240  |
| ACDNR6045NT-680MT | 3.3±20%            | 100K/1V            | 1.6           | 1.35 | 1.1           | 0.92 | 305         | 366  |
| ACDNR6045NT-101MT | 4.7±20%            | 100K/1V            | 1.33          | 1.15 | 0.92          | 0.82 | 456         | 547  |
| ACDNR6045NT-151MT | 6.8±20%            | 100K/1V            | 1.1           | 0.95 | 0.75          | 0.7  | 626         | 751  |
| ACDNR6045NT-331MT | 10±20%             | 100K/1V            | 0.6           | 0.55 | 0.55          | 0.45 | 1400        | 1680 |
| ACDNR6045NT-471MT | 22±20%             | 100K/1V            | 0.5           | 0.45 | 0.4           | 0.35 | 2050        | 2460 |

- 1 : CORE SIZE      Ferrite Core  
2 : SOLDER      Lead-free process (focus)

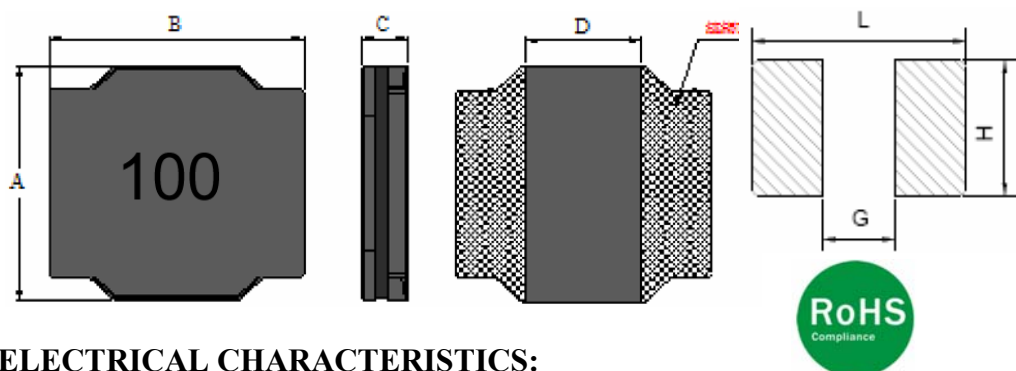
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR6045K SERIES

## MECHANICAL DIMENSION :



## DIMENSIONS (mm)

|   |      |      |
|---|------|------|
| A | 6.00 | ±0.3 |
| B | 6.00 | ±0.3 |
| C | 4.70 | Max. |
| D | 2.30 | ±0.3 |
| L | 6.00 | Ref. |
| G | 2.40 | Ref. |
| H | 5.70 | Ref. |

## ELECTRICAL CHARACTERISTICS:

| Parts Number     | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|------------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                  |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR6045K-1R0YT | 1.0±30%            | 100K/1V               | 9.85          | 5.14          | 11          | 14   |
| ACDNR6045K-1R5YT | 1.5±30%            | 100K/1V               | 8.8           | 4.95          | 12          | 16   |
| ACDNR6045K-2R2YT | 2.2±30%            | 100K/1V               | 6.75          | 4.6           | 14          | 18   |
| ACDNR6045K-3R3YT | 3.3±30%            | 100K/1V               | 5.9           | 3.7           | 24          | 31   |
| ACDNR6045K-4R7MT | 4.7±20%            | 100K/1V               | 4.97          | 3.3           | 31          | 40   |
| ACDNR6045K-6R8MT | 6.8±20%            | 100K/1V               | 3.9           | 3             | 35          | 46   |
| ACDNR6045K-100MT | 10±20%             | 100K/1V               | 3.2           | 2.45          | 48          | 62   |
| ACDNR6045K-150MT | 15±20%             | 100K/1V               | 2.5           | 2.05          | 68          | 88   |
| ACDNR6045K-220MT | 22±20%             | 100K/1V               | 2.05          | 1.8           | 89          | 116  |
| ACDNR6045K-330MT | 33±20%             | 100K/1V               | 1.65          | 1.45          | 137         | 178  |
| ACDNR6045K-470MT | 47±20%             | 100K/1V               | 1.4           | 1.2           | 200         | 260  |
| ACDNR6045K-560MT | 56±20%             | 100K/1V               | 1.3           | 1.1           | 221         | 287  |
| ACDNR6045K-680MT | 68±20%             | 100K/1V               | 1.2           | 1             | 289         | 376  |
| ACDNR6045K-101MT | 100±20%            | 100K/1V               | 0.95          | 0.8           | 433         | 563  |
| ACDNR6045K-121MT | 120±20%            | 100K/1V               | 0.85          | 0.77          | 484         | 629  |
| ACDNR6045K-151MT | 150±20%            | 100K/1V               | 0.8           | 0.7           | 580         | 754  |
| ACDNR6045K-221MT | 220±20%            | 100K/1V               | 0.7           | 0.59          | 834         | 1084 |
| ACDNR6045K-331MT | 330±20%            | 100K/1V               | 0.57          | 0.57          | 1270        | 1651 |
| ACDNR6045K-471MT | 470±20%            | 100K/1V               | 0.5           | 0.42          | 1800        | 2340 |
| ACDNR6045K-681MT | 680±20%            | 100K/1V               | 0.42          | 0.33          | 2500        | 3250 |
| ACDNR6045K-102MT | 1000±20%           | 100K/1V               | 0.3           | 0.3           | 4500        | 5850 |
| ACDNR6045K-152MT | 1500±20%           | 100K/1V               | 0.24          | 0.21          | 6500        | 8450 |

- 1 : CORE SIZE Ferrite Core  
2 : SOLDER Lead-free process (focus)

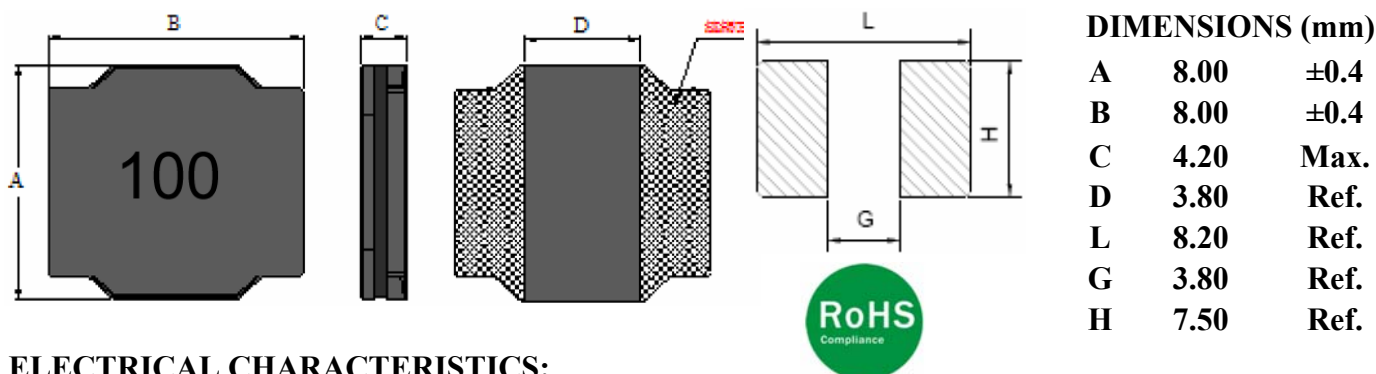
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR8040 SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number    | Inductance (uH) | Test Freq. (Hz) | Isat(A) ※1 | Irms(A) ※2 | DCR (mΩ) |      |
|-----------------|-----------------|-----------------|------------|------------|----------|------|
|                 |                 |                 | Max.       | Max.       | Typ.     | Max. |
| ACDNR8040-R90YT | 0.9±30%         | 100K/1V         | 12.42      | 7.24       | 7        | 9    |
| ACDNR8040-1R0YT | 1.0±30%         | 100K/1V         | 11.70      | 7.15       | 7.5      | 10   |
| ACDNR8040-1R4YT | 1.4±30%         | 100K/1V         | 9.72       | 7.02       | 9        | 12   |
| ACDNR8040-1R5YT | 1.5±30%         | 100K/1V         | 9.07       | 6.93       | 9.5      | 13   |
| ACDNR8040-2R0YT | 2.0±30%         | 100K/1V         | 8.64       | 6.66       | 11       | 15   |
| ACDNR8040-2R2YT | 2.2±30%         | 100K/1V         | 8.28       | 6.48       | 11.5     | 15   |
| ACDNR8040-2R5YT | 2.5±30%         | 100K/1V         | 7.38       | 5.67       | 13       | 17   |
| ACDNR8040-3R3NT | 3.3±25%         | 100K/1V         | 6.75       | 5.40       | 15       | 20   |
| ACDNR8040-4R7MT | 4.7±20%         | 100K/1V         | 5.40       | 4.95       | 18       | 24   |
| ACDNR8040-5R6MT | 5.6±20%         | 100K/1V         | 5.13       | 4.68       | 23       | 26   |
| ACDNR8040-6R8MT | 6.8±20%         | 100K/1V         | 5.40       | 5.10       | 28       | 36   |
| ACDNR8040-100MT | 10±20%          | 100K/1V         | 4.30       | 3.80       | 38       | 50   |
| ACDNR8040-120MT | 12±20%          | 100K/1V         | 3.42       | 3.15       | 45       | 59   |
| ACDNR8040-150MT | 15±20%          | 100K/1V         | 3.24       | 2.88       | 50       | 65   |
| ACDNR8040-180MT | 18±20%          | 100K/1V         | 2.79       | 2.43       | 68       | 89   |
| ACDNR8040-220MT | 22±20%          | 100K/1V         | 2.52       | 2.34       | 80       | 104  |
| ACDNR8040-330MT | 33±20%          | 100K/1V         | 2.07       | 1.80       | 110      | 143  |
| ACDNR8040-470MT | 47±20%          | 100K/1V         | 1.71       | 1.57       | 160      | 208  |
| ACDNR8040-680MT | 68±20%          | 100K/1V         | 1.53       | 1.30       | 240      | 312  |
| ACDNR8040-101MT | 100±20%         | 100K/1V         | 1.26       | 0.99       | 340      | 442  |
| ACDNR8040-121MT | 120±20%         | 100K/1V         | 0.99       | 0.90       | 425      | 553  |
| ACDNR8040-151MT | 150±20%         | 100K/1V         | 0.90       | 0.81       | 480      | 624  |
| ACDNR8040-221MT | 220±20%         | 100K/1V         | 0.84       | 0.54       | 670      | 871  |
| ACDNR8040-271MT | 270±20%         | 100K/1V         | 0.74       | 0.49       | 900      | 1170 |
| ACDNR8040-821MT | 820±20%         | 100K/1V         | 0.36       | 0.34       | 2800     | 3640 |

- 1 : CORE SIZE Ferrite Core  
2 : SOLDER Lead-free process (focus)

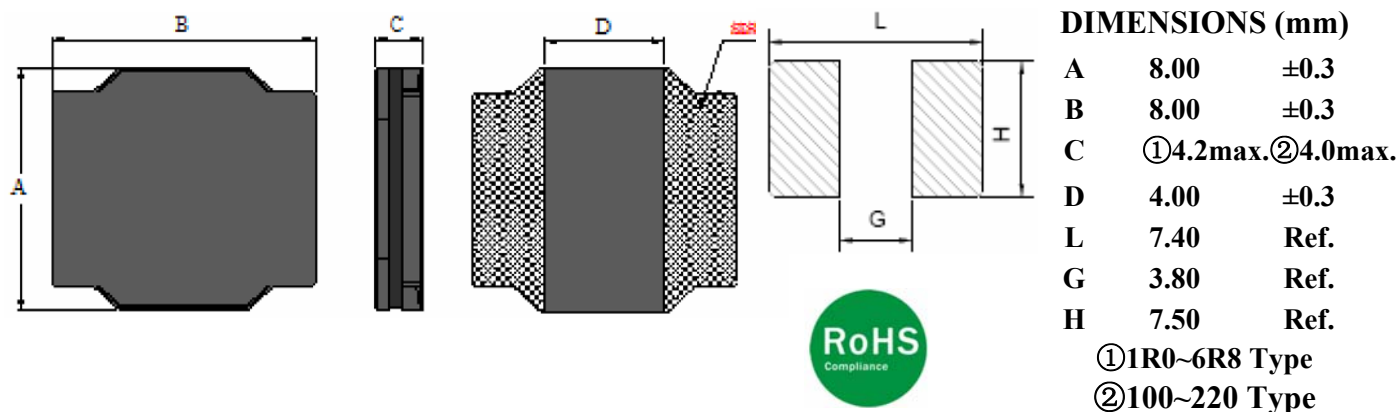
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)

# ACDNR8040NT SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number      | Inductance<br>(uH) | Test Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|-------------------|--------------------|--------------------|---------------|---------------|-------------|------|
|                   |                    |                    | Max.          | Max.          | Typ.        | Max. |
| ACDNR8040NT-R90MT | 0.9±20%            | 100K/1V            | 12.42         | 7.24          | 6           | 8    |
| ACDNR8040NT-1R4MT | 1.4±20%            | 100K/1V            | 9.72          | 7.02          | 7           | 10   |
| ACDNR8040NT-2R0MT | 2.0±20%            | 100K/1V            | 8.64          | 6.66          | 9           | 12   |
| ACDNR8040NT-2R2MT | 2.2±20%            | 100K/1V            | 8.28          | 6.48          | 11.5        | 15   |
| ACDNR8040NT-3R3MT | 3.3±20%            | 100K/1V            | 6.75          | 5.40          | 15          | 20   |
| ACDNR8040NT-4R7MT | 4.7±20%            | 100K/1V            | 5.40          | 4.95          | 18          | 24   |
| ACDNR8040NT-6R8MT | 6.8±20%            | 100K/1V            | 4.86          | 4.59          | 24          | 32   |
| ACDNR8040NT-100MT | 10±20%             | 100K/1V            | 3.87          | 3.42          | 29          | 38   |
| ACDNR8040NT-150MT | 15±20%             | 100K/1V            | 3.24          | 2.88          | 47          | 62   |
| ACDNR8040NT-220MT | 22±20%             | 100K/1V            | 2.52          | 2.34          | 69          | 90   |
| ACDNR8040NT-680MT | 68±20%             | 100K/1V            | 1.53          | 1.30          | 196         | 255  |

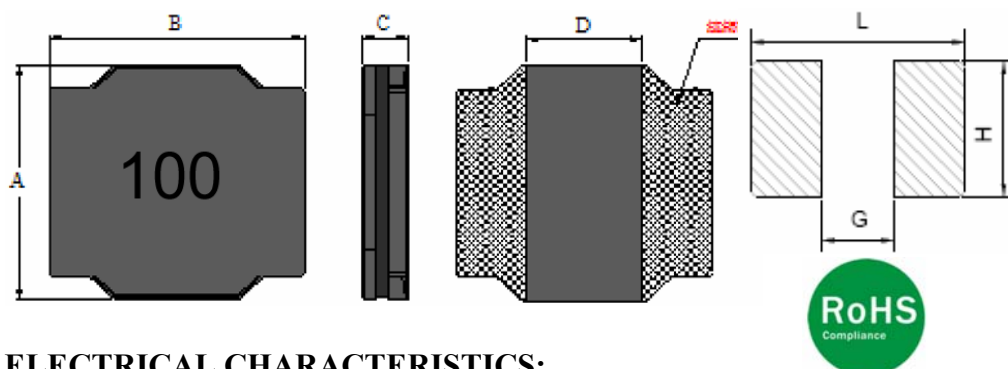
- 1 : CORE SIZE      Ferrite Core  
2 : SOLDER      Lead-free process (focus)

## REMARK :

- ※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)  
※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)



## MECHANICAL DIMENSION :



## DIMENSIONS (mm)

|   |      |      |
|---|------|------|
| A | 8.00 | ±0.4 |
| B | 8.00 | ±0.4 |
| C | 4.20 | Max. |
| D | 3.60 | ±0.3 |
| L | 8.50 | Ref. |
| G | 3.10 | Ref. |
| H | 7.50 | Ref. |

## ELECTRICAL CHARACTERISTICS:

| Parts Number     | Inductance (uH) | Test Freq. (Hz) | Isat(A) ※1 | Irms(A) ※2 | DCR (mΩ) |      |
|------------------|-----------------|-----------------|------------|------------|----------|------|
|                  |                 |                 | Max.       | Max.       | Typ.     | Max. |
| ACDNR8040K-R82YT | 0.82±30%        | 100K/1V         | 13.8       | 6.3        | 8        | 10.4 |
| ACDNR8040K-1R0YT | 1.0±30%         | 100K/1V         | 9.85       | 6.3        | 8        | 10.4 |
| ACDNR8040K-1R5YT | 1.5±30%         | 100K/1V         | 8.15       | 5.65       | 10       | 13   |
| ACDNR8040K-2R2YT | 2.2±30%         | 100K/1V         | 7.1        | 5.15       | 12       | 16   |
| ACDNR8040K-3R3YT | 3.3±30%         | 100K/1V         | 6.5        | 4.4        | 17       | 22   |
| ACDNR8040K-4R7YT | 4.7±30%         | 100K/1V         | 5.9        | 4.1        | 19       | 25   |
| ACDNR8040K-6R8MT | 6.8±20%         | 100K/1V         | 4.55       | 3.6        | 24       | 31   |
| ACDNR8040K-8R2MT | 8.2±20%         | 100K/1V         | 4.2        | 3.45       | 26       | 34   |
| ACDNR8040K-100MT | 10±20%          | 100K/1V         | 3.6        | 3.3        | 42       | 55   |
| ACDNR8040K-150MT | 15±20%          | 100K/1V         | 2.95       | 2.6        | 47       | 61   |
| ACDNR8040K-180MT | 18±20%          | 100K/1V         | 2.7        | 2.4        | 53       | 69   |
| ACDNR8040K-220MT | 22±20%          | 100K/1V         | 2.4        | 2.1        | 69       | 90   |
| ACDNR8040K-330MT | 33±20%          | 100K/1V         | 2.05       | 1.8        | 97       | 126  |
| ACDNR8040K-470MT | 47±20%          | 100K/1V         | 1.75       | 1.55       | 136      | 177  |
| ACDNR8040K-680MT | 68±20%          | 100K/1V         | 1.45       | 1.25       | 196      | 255  |
| ACDNR8040K-820MT | 82±20%          | 100K/1V         | 1.3        | 1.15       | 225      | 293  |
| ACDNR8040K-101MT | 100±20%         | 100K/1V         | 1.15       | 1          | 290      | 377  |
| ACDNR8040K-121MT | 120±20%         | 100K/1V         | 1.05       | 0.95       | 334      | 434  |
| ACDNR8040K-151MT | 150±20%         | 100K/1V         | 1.1        | 0.85       | 410      | 533  |
| ACDNR8040K-221MT | 220±20%         | 100K/1V         | 0.85       | 0.8        | 599      | 779  |
| ACDNR8040K-331MT | 330±20%         | 100K/1V         | 0.68       | 0.64       | 889      | 1156 |
| ACDNR8040K-471MT | 470±20%         | 100K/1V         | 0.6        | 0.54       | 1260     | 1638 |
| ACDNR8040K-681MT | 680±20%         | 100K/1V         | 0.5        | 0.45       | 2040     | 2652 |
| ACDNR8040K-102MT | 1000±20%        | 100K/1V         | 0.4        | 0.35       | 2800     | 3640 |

- 1 : CORE SIZE Ferrite Core
- 2 : SOLDER Lead-free process (focus)

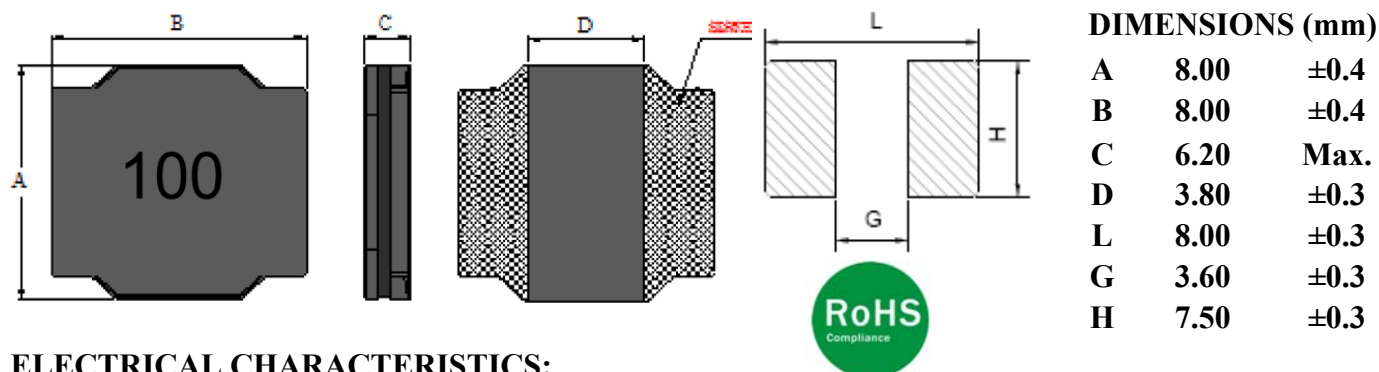
## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5°C)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40°C. (Ta=25±5°C)

# ACDNR8060K SERIES

## MECHANICAL DIMENSION :



## ELECTRICAL CHARACTERISTICS:

| Parts Number     | Inductance<br>(uH) | Test<br>Freq.<br>(Hz) | Isat(A)<br>※1 | Irms(A)<br>※2 | DCR<br>(mΩ) |      |
|------------------|--------------------|-----------------------|---------------|---------------|-------------|------|
|                  |                    |                       | Max.          | Max.          | Typ.        | Max. |
| ACDNR8060K-101MT | 100±20%            | 100K/1V               | 1.70          | 0.91          | 220         | 286  |

- 1 : CORE SIZE      Ferrite Core  
2 : SOLDER      Lead-free process (focus)

## REMARK :

※1: Saturation Rated Current: The current when the inductance becomes 30% lower than its nominal value. (Ta=25±5℃)

※2: Temperature Rise Current: The temperature rise current value is the DC current value having temperature increase up to 40℃. (Ta=25±5℃)