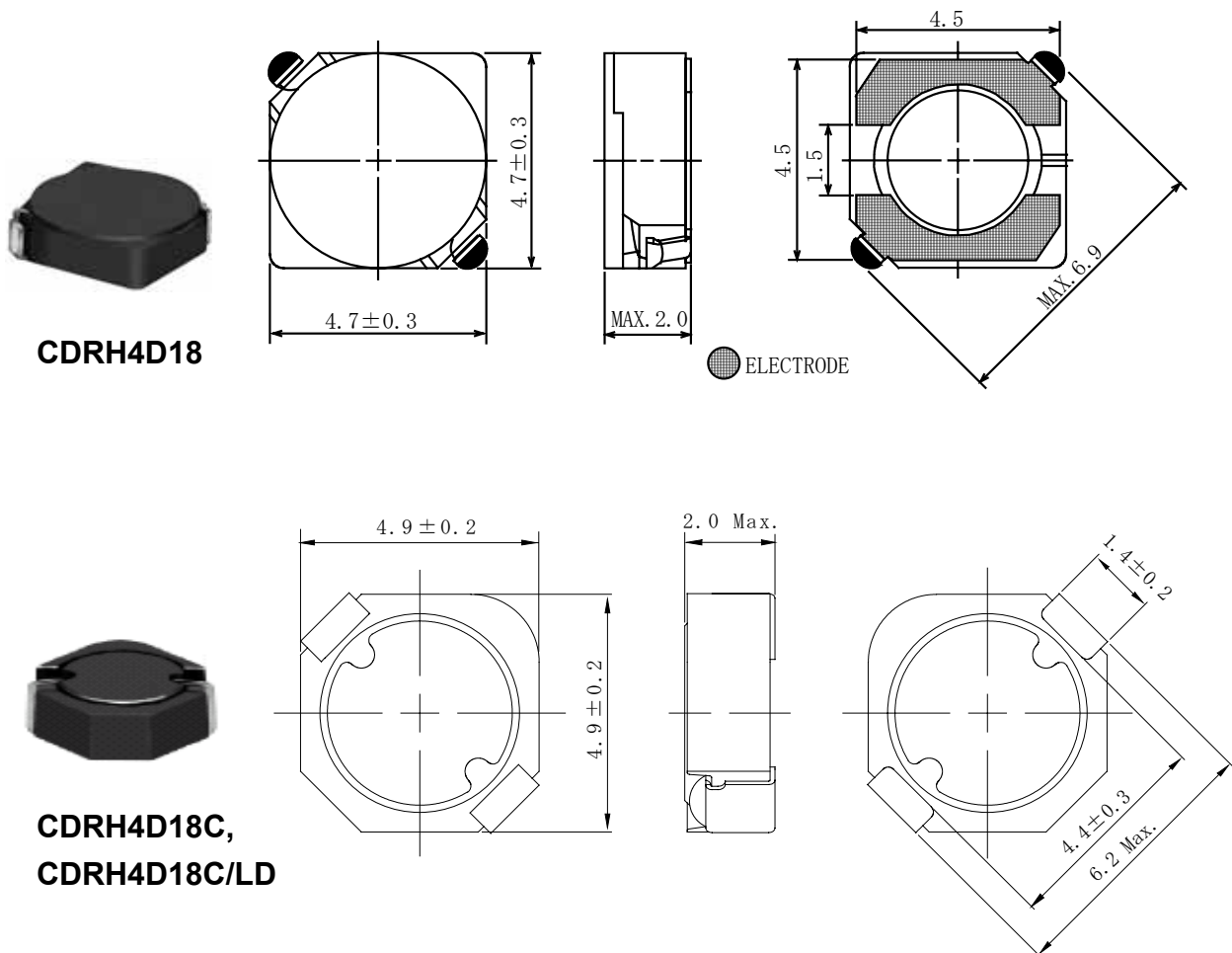


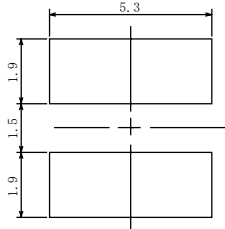
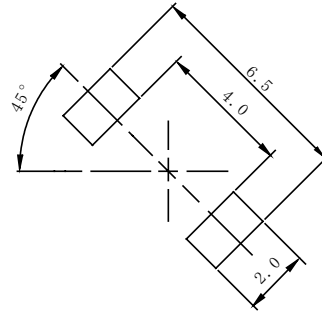
**Type: CDRH4D18 , CDRH4D18C , CDRH4D18C/LD**
**◆ Product Description**

- 5.0×5.0mm Max.(L×W), 2.0mm Max. Height.(CDRH4D18)
- 5.1×5.1mm Max.(L×W), 2.0mm Max. Height.(CDRH4D18C,CDRH4D18C/LD)
- Standard type CDRH4D18, CDRH4D18C and Low DCR type CDRH4D18C/LD are available.
- Inductance range:1.0~180μH(CDRH4D18); 1.1~100μH(CDRH4D18C,CDRH4D18C /LD);
- Rated current range:0.14~1.72A(CDRH4D18); 0.25~2.4A(CDRH4D18C); 0.2~2.1A (CDRH4D18C /LD);
- Custom design is available.

**◆ Feature**

- Magnetically shielded construction.
- Ideally used in Mobile phone,PDA,MP3,HDD,DSC/DVC,Note book PC,etc as DC-DC Converter inductors.
- RoHS Compliance.

**◆ Dimensions (mm)**


**Type: CDRH4D18 , CDRH4D18C , CDRH4D18C/LD**
**◆ Land Pattern (mm)**

**CDRH4D18**

**CDRH4D18C, CDRH4D18C/LD**
**◆ Specification (CDRH4D18)**

| Part No.<br>※    | Stamp | Inductance   | D.C.R.(Ω)<br>Max.(Typ.)<br>(20℃) | Rated<br>Current (A)※1-1 | Measuring<br>frequency |
|------------------|-------|--------------|----------------------------------|--------------------------|------------------------|
| CDRH4D18NP-1R0N□ | 1R0   | 1.0 μH ± 30% | 45m(35m)                         | 1.72                     | 7.96MHz                |
| CDRH4D18NP-2R2N□ | 2R2   | 2.2 μH ± 30% | 75m(58m)                         | 1.32                     |                        |
| CDRH4D18NP-2R7N□ | 2R7   | 2.7 μH ± 30% | 105m(80m)                        | 1.28                     |                        |
| CDRH4D18NP-3R3N□ | 3R3   | 3.3 μH ± 30% | 110m(85m)                        | 1.04                     |                        |
| CDRH4D18NP-3R9N□ | 3R9   | 3.9 μH ± 30% | 155m(120m)                       | 0.88                     |                        |
| CDRH4D18NP-4R7N□ | 4R7   | 4.7 μH ± 30% | 162m(125m)                       | 0.84                     |                        |
| CDRH4D18NP-5R6N□ | 5R6   | 5.6 μH ± 30% | 170m(130m)                       | 0.80                     |                        |
| CDRH4D18NP-6R8N□ | 6R8   | 6.8 μH ± 30% | 200m(155m)                       | 0.76                     |                        |
| CDRH4D18NP-8R2N□ | 8R2   | 8.2 μH ± 30% | 245m(190m)                       | 0.68                     |                        |
| CDRH4D18NP-100N□ | 100   | 10 μH ± 30%  | 200m(148m)                       | 0.61                     | 100kHz                 |
| CDRH4D18NP-120N□ | 120   | 12 μH ± 30%  | 210m(156m)                       | 0.56                     |                        |
| CDRH4D18NP-150N□ | 150   | 15 μH ± 30%  | 240m(178m)                       | 0.50                     |                        |
| CDRH4D18NP-180N□ | 180   | 18 μH ± 30%  | 338m(250m)                       | 0.48                     |                        |
| CDRH4D18NP-220N□ | 220   | 22 μH ± 30%  | 397m(294m)                       | 0.41                     |                        |
| CDRH4D18NP-270N□ | 270   | 27 μH ± 30%  | 441m(327m)                       | 0.35                     |                        |
| CDRH4D18NP-330N□ | 330   | 33 μH ± 30%  | 694m(514m)                       | 0.32                     |                        |
| CDRH4D18NP-390N□ | 390   | 39 μH ± 30%  | 709m(525m)                       | 0.30                     |                        |
| CDRH4D18NP-470N□ | 470   | 47 μH ± 30%  | 922m(683m)                       | 0.28                     |                        |
| CDRH4D18NP-560N□ | 560   | 56 μH ± 30%  | 1.08(800m)                       | 0.26                     |                        |
| CDRH4D18NP-680N□ | 680   | 68 μH ± 30%  | 1.30(1.00)                       | 0.24                     |                        |
| CDRH4D18NP-820N□ | 820   | 82 μH ± 30%  | 1.56(1.20)                       | 0.22                     |                        |
| CDRH4D18NP-101N□ | 101   | 100 μH ± 30% | 1.73(1.33)                       | 0.20                     |                        |
| CDRH4D18NP-121N□ | 121   | 120 μH ± 30% | 2.39(1.84)                       | 0.18                     |                        |
| CDRH4D18NP-151N□ | 151   | 150 μH ± 30% | 2.67(2.05)                       | 0.15                     |                        |
| CDRH4D18NP-181N□ | 181   | 180 μH ± 30% | 4.00(3.05)                       | 0.14                     |                        |

※1-1. Rated current: The DC current at which the inductance decreases to 65% of it's nominal value or when  $\Delta t=40^{\circ}\text{C}$ , whichever is lower( $T_a=20^{\circ}\text{C}$ ).

**Type: CDRH4D18 , CDRH4D18C , CDRH4D18C/LD**
**◆ Specification (CDRH4D18C)**

| Part No.<br>※     | Stamp | Inductance<br>100kHz/1V | D.C.R.( $\Omega$ )<br>Max.(Typ.)<br>(20℃) | Rated Current<br>(A)※1-1 |
|-------------------|-------|-------------------------|-------------------------------------------|--------------------------|
| CDRH4D18CNP-1R1P□ | A     | 1.1 $\mu$ H $\pm$ 25%   | 29m(23m)                                  | 2.4                      |
| CDRH4D18CNP-2R2P□ | B     | 2.2 $\mu$ H $\pm$ 25%   | 39m(31m)                                  | 1.7                      |
| CDRH4D18CNP-3R0P□ | C     | 3.0 $\mu$ H $\pm$ 25%   | 61m(49m)                                  | 1.5                      |
| CDRH4D18CNP-4R7P□ | D     | 4.7 $\mu$ H $\pm$ 25%   | 110m(88m)                                 | 1.15                     |
| CDRH4D18CNP-6R8P□ | E     | 6.8 $\mu$ H $\pm$ 25%   | 125m(100m)                                | 1.05                     |
| CDRH4D18CNP-100P□ | F     | 10 $\mu$ H $\pm$ 25%    | 156m(125m)                                | 830m                     |
| CDRH4D18CNP-150P□ | G     | 15 $\mu$ H $\pm$ 25%    | 194m(155m)                                | 700m                     |
| CDRH4D18CNP-220P□ | H     | 22 $\mu$ H $\pm$ 25%    | 323m(258m)                                | 600m                     |
| CDRH4D18CNP-330P□ | I     | 33 $\mu$ H $\pm$ 25%    | 550m(440m)                                | 460m                     |
| CDRH4D18CNP-470P□ | J     | 47 $\mu$ H $\pm$ 25%    | 783m(626m)                                | 410m                     |
| CDRH4D18CNP-680P□ | K     | 68 $\mu$ H $\pm$ 25%    | 1.16(925m)                                | 305m                     |
| CDRH4D18CNP-101P□ | L     | 100 $\mu$ H $\pm$ 25%   | 1.51(1.21)                                | 250m                     |

**◆ Specification (CDRH4D18C/LD)**

| Part No.<br>※       | Stamp | Inductance<br>100kHz/1V | D.C.R.(m $\Omega$ )<br>Max.(Typ.)<br>(20℃) | Saturation<br>Current(A)<br>※1-2 | Temperature<br>rise current<br>(A) ※2 |
|---------------------|-------|-------------------------|--------------------------------------------|----------------------------------|---------------------------------------|
| CDRH4D18CLDNP-1R1P□ | A     | 1.1 $\mu$ H $\pm$ 25%   | 24(19)                                     | 2.10                             | 3.50                                  |
| CDRH4D18CLDNP-2R2P□ | B     | 2.2 $\mu$ H $\pm$ 25%   | 31(25)                                     | 1.30                             | 2.80                                  |
| CDRH4D18CLDNP-3R3P□ | C     | 3.3 $\mu$ H $\pm$ 25%   | 49(39)                                     | 1.10                             | 2.20                                  |
| CDRH4D18CLDNP-4R7P□ | D     | 4.7 $\mu$ H $\pm$ 25%   | 61(49)                                     | 0.90                             | 2.00                                  |
| CDRH4D18CLDNP-6R3P□ | E     | 6.3 $\mu$ H $\pm$ 25%   | 74(59)                                     | 0.75                             | 1.60                                  |
| CDRH4D18CLDNP-100P□ | F     | 10 $\mu$ H $\pm$ 25%    | 110(88)                                    | 0.60                             | 1.20                                  |
| CDRH4D18CLDNP-150P□ | G     | 15 $\mu$ H $\pm$ 25%    | 151(121)                                   | 0.50                             | 1.05                                  |
| CDRH4D18CLDNP-220P□ | H     | 22 $\mu$ H $\pm$ 25%    | 202(162)                                   | 0.42                             | 0.90                                  |
| CDRH4D18CLDNP-330P□ | I     | 33 $\mu$ H $\pm$ 25%    | 327(262)                                   | 0.35                             | 0.69                                  |
| CDRH4D18CLDNP-470P□ | J     | 47 $\mu$ H $\pm$ 25%    | 456(365)                                   | 0.31                             | 0.57                                  |
| CDRH4D18CLDNP-680P□ | K     | 68 $\mu$ H $\pm$ 25%    | 632(506)                                   | 0.26                             | 0.46                                  |
| CDRH4D18CLDNP-101P□ | L     | 100 $\mu$ H $\pm$ 25%   | 962(770)                                   | 0.20                             | 0.35                                  |

**※ Description of part name**

CDRH4D18CLDNP-1R1P□

— B Box  
 — C Carrier Tape

※1-2.Saturation Current: The DC current at which the inductance decreases to 65% of it's nominal value

 ※2 Temperature rise current: The DC current at which the temperature rise is  $\Delta t=40^{\circ}\text{C}$ .( $T_a=20^{\circ}\text{C}$ )