

CMI-RMCI0603-SERIES

Features

- ▶ Halogen-Free / RoHS compliant.
- ▶ Support operating frequency up to 10GHz.
- ▶ Provide high quality factor.
- ▶ Monolithic structure for high reliability.
- ▶ Excellent solderability and high heat resistance for either flow or reflow soldering.

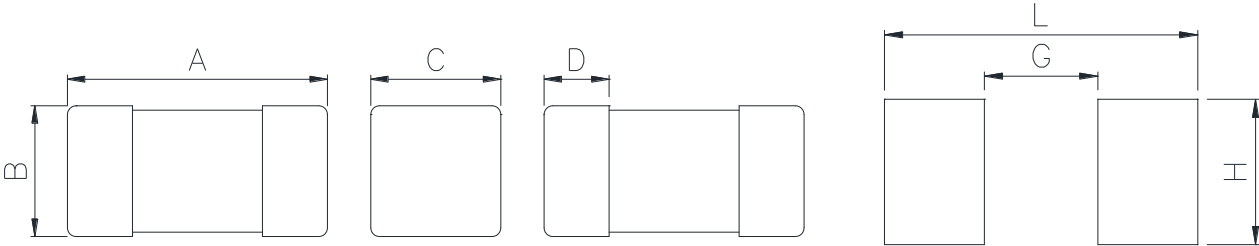


Applications

- ▶ RF circuit and module.
- ▶ Tablet, Notebook, Desktop computers and peripheral equipment
- ▶ DSC, DVC, LCD Television, Set Top Box.
- ▶ Mobile phone, Smart phone, PND
- ▶ Digital communication equipment
- ▶ Various electronic equipment.

Dimension (Unit:mm)

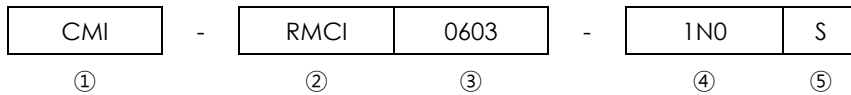
Land Pattern (Unit:mm)



| A | B | C | D | L | G | H |
|----------|----------|----------|---------|------|------|------|
| 0.6±0.03 | 0.3±0.03 | 0.33 Max | 0.1~0.2 | 0.69 | 0.25 | 0.32 |

• You can also contact us by e-mail : coilmaster@coilmaster.com
 • All specifications are subject to change without notice.
 • Update date : 2023.05.10

Regulation of part number



- ① CoilMaster's initial
- ② Product Series Name
- ③ Core Size (unit:mm)
- ④ Inductance Value (1N0 : 1.0 nH)
- ⑤ Inductance Tolerance (S : ±0.3nH, G : ±2%, J : ±5%, K : ±10%, M : ±20%)

Specifications

| Part Number | Inductance (nH) S: ±0.3, J: ±5% | Q Min. | Test Frequency (MHz) | SRF (GHz) Min. | DC Resistance (ohm) Max. | Rated Current (mA) Max. |
|-------------------|--|-----------|----------------------------|-------------------|-----------------------------------|-------------------------------|
| CMI-RMCI0603-1N0S | 1.0 | 4 | 100 | 10 | 0.11 | 470 |
| CMI-RMCI0603-1N2S | 1.2 | 4 | 100 | 10 | 0.12 | 450 |
| CMI-RMCI0603-1N5S | 1.5 | 4 | 100 | 10 | 0.13 | 430 |
| CMI-RMCI0603-1N8S | 1.8 | 4 | 100 | 10 | 0.16 | 390 |
| CMI-RMCI0603-2N2S | 2.2 | 4 | 100 | 8.8 | 0.19 | 360 |
| CMI-RMCI0603-2N7S | 2.7 | 5 | 100 | 7.7 | 0.21 | 340 |
| CMI-RMCI0603-3N3S | 3.3 | 5 | 100 | 6.7 | 0.23 | 320 |
| CMI-RMCI0603-3N9S | 3.9 | 5 | 100 | 6.0 | 0.27 | 300 |
| CMI-RMCI0603-4N7S | 4.7 | 5 | 100 | 5.3 | 0.30 | 280 |
| CMI-RMCI0603-5N1S | 5.1 | 5 | 100 | 5.0 | 0.33 | 270 |
| CMI-RMCI0603-5N6S | 5.6 | 5 | 100 | 4.6 | 0.36 | 260 |
| CMI-RMCI0603-6N8J | 6.8 | 5 | 100 | 3.9 | 0.39 | 250 |
| CMI-RMCI0603-8N2J | 8.2 | 5 | 100 | 3.4 | 0.45 | 230 |
| CMI-RMCI0603-10NJ | 10 | 5 | 100 | 2.9 | 0.51 | 220 |
| CMI-RMCI0603-12NJ | 12 | 5 | 100 | 2.7 | 0.68 | 190 |
| CMI-RMCI0603-15NJ | 15 | 5 | 100 | 2.3 | 0.71 | 180 |
| CMI-RMCI0603-18NJ | 18 | 5 | 100 | 2.1 | 0.81 | 170 |
| CMI-RMCI0603-22NJ | 22 | 5 | 100 | 1.8 | 1.00 | 150 |
| CMI-RMCI0603-27NJ | 27 | 4 | 100 | 1.8 | 1.35 | 120 |

- You can also contact us by e-mail : coilmaster@coilmaster.com
- All specifications are subject to change without notice.
- Update date : 2023.05.10

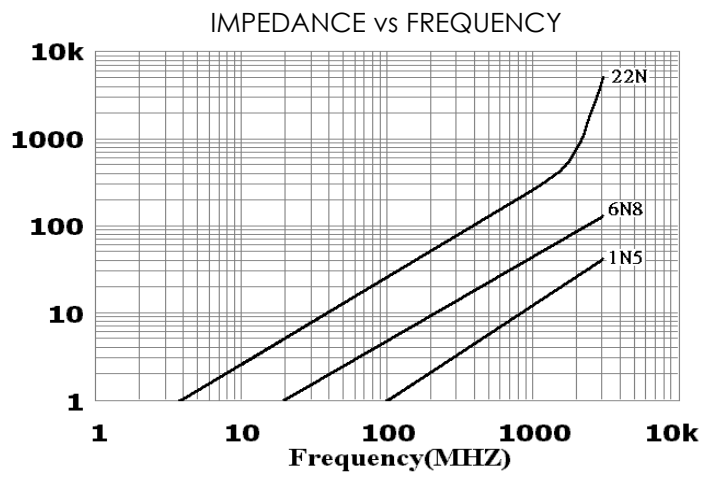
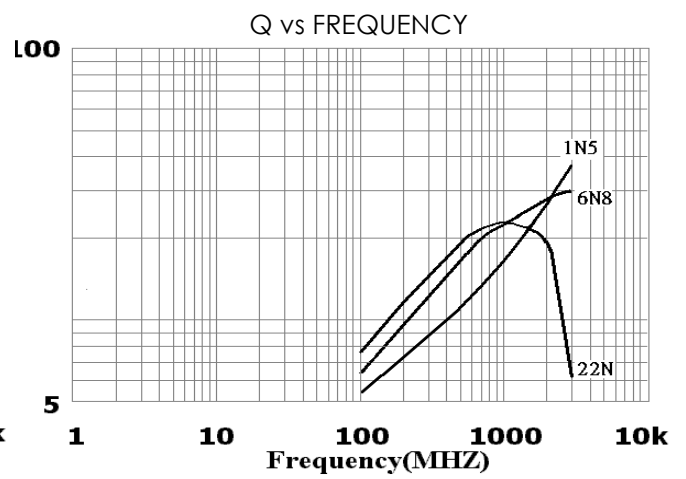
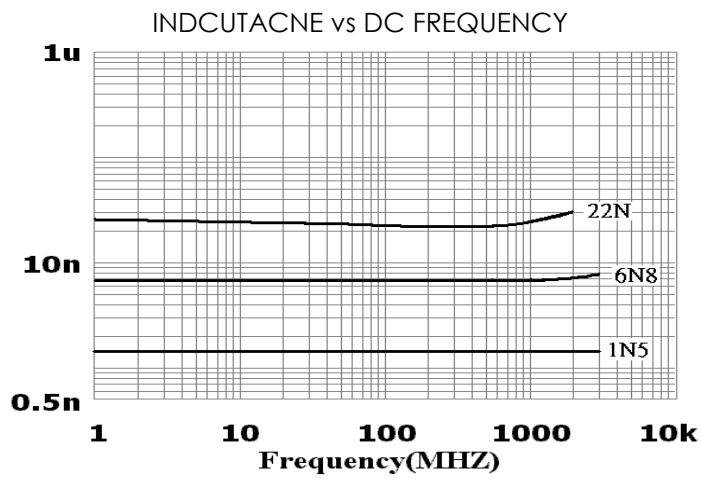
| Part Number | Inductance (nH) S: ±0.3, J: ±5% | Q Min. | Test Frequency (MHz) | SRF (GHz) Min. | DC Resistance (ohm) Max. | Rated Current (mA) Max. |
|-------------------|---------------------------------------|--------|----------------------|----------------|--------------------------|-------------------------|
| CMI-RMCI0603-33NJ | 33 | 4 | 100 | 1.7 | 1.47 | 110 |
| CMI-RMCI0603-39NJ | 39 | 4 | 100 | 1.5 | 1.72 | 100 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

- Rated Current : the DC current value having temperature increased 40 °c after thru DC current 2 hours at ambient temperature.
- Storage Temperature Range : -40°C ~ +85 °c
- Operating Temperature Range : -55°C ~ +125 °c

Note 1 : Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

- **You can also contact us by e-mail : coilmaster@coilmaster.com**
- All specifications are subject to change without notice.
- Update date : 2023.05.10

Electrical characteristics

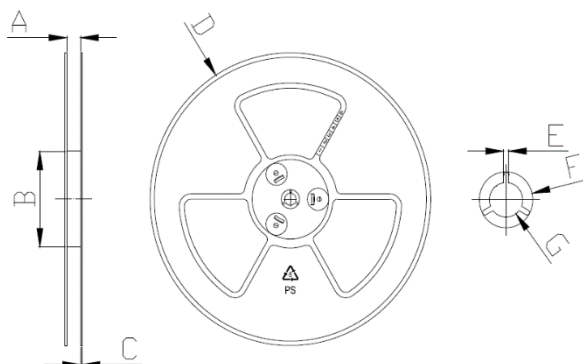


- You can also contact us by e-mail : coilmaster@coilmaster.com
- All specifications are subject to change without notice.
- Update date : 2023.05.10

Packaging

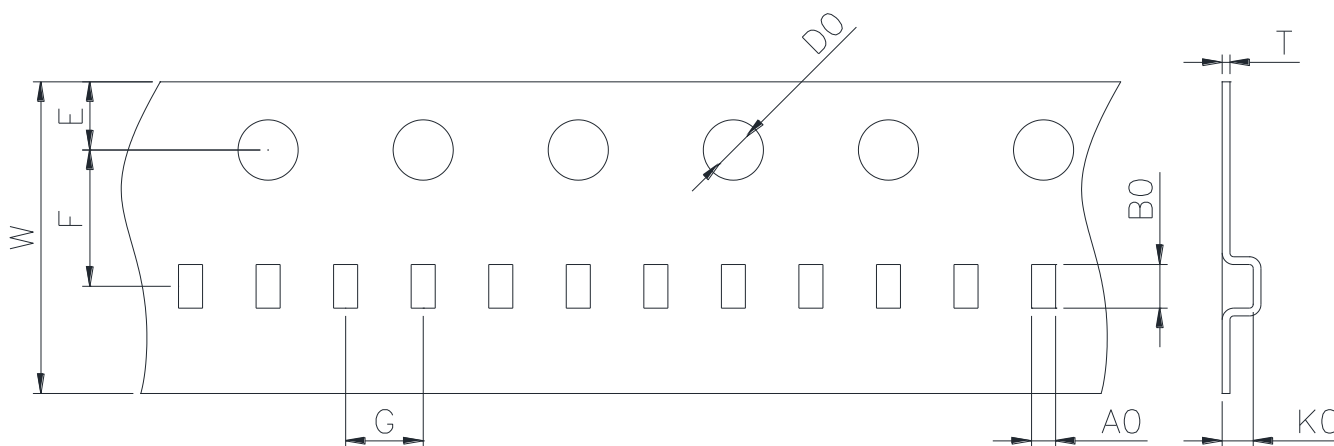
(1) Package quantity : 4,000 (pcs/reel)

(2) Reel Dimensions (unit:mm)



| A | B | C | D | E | F | G |
|-------|-------|-------|-------|-------|-------|-------|
| 10.00 | 60.00 | 2.00 | 178.0 | 2.00 | 21.00 | 13.00 |
| +1.50 | +2.00 | +0.50 | +2.00 | +0.50 | +0.80 | +0.80 |
| -1.50 | -2.00 | -0.50 | -2.00 | -0.50 | -0.80 | -0.80 |

(3) Tape Dimensions



| W | A0 | B0 | T | E | F | G | D0 | K0 |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 8.00 | 1.10 | 1.90 | 0.20 | 1.75 | 3.50 | 4.00 | 1.50 | 1.10 |
| +0.20 | +0.10 | +0.10 | +0.05 | +0.10 | +0.05 | +0.10 | +0.10 | +0.05 |
| -0.20 | -0.10 | -0.10 | -0.05 | -0.10 | -0.05 | -0.10 | -0.00 | -0.05 |

Korea Sales Office (KOREA)

+82)31-904-1444

H.K Sales Office (HONGKONG)

+852)2711-5551

China Sales Office (CHINA)

+86)0758-683-1444

LA Sales Office (USA)

+1)714-616-6989

Hungary Sales office (EUROPE)

+36)1-404-5832

▪ You can also contact us by e-mail : coilmaster@coilmaster.com

▪ All specifications are subject to change without notice.

▪ Update date : 2023.05.10

www.coilmaster.com