

# CMI-RMCI1005-SERIES

### Features

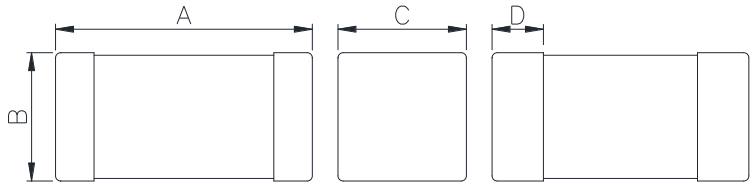
- ▶ Halogen-Free / RoHS compliant.
- ▶ Support operating frequency up to 10GHz.
- ▶ Provide high quality factor.
- ▶ Monolithic structure for high reliability.
- ▶ Excellent solderability and high heat resistance for either flow or reflow soldering.



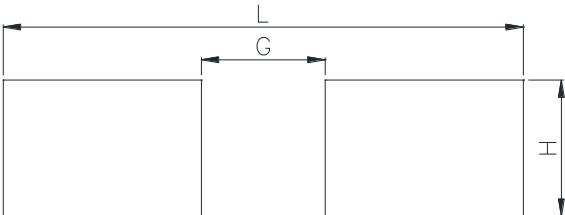
### Applications

- ▶ 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)



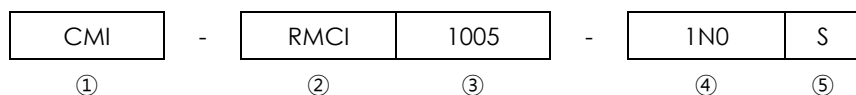
Land Pattern (Unit:mm)



A	B	C	D	L	G	H
1.0±0.05	0.5±0.05	0.5±0.05	0.1~0.3	2.10	0.50	0.55

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 • 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 :  $\pm 0.3nH$ , G :  $\pm 2\%$ , J :  $\pm 5\%$ , K :  $\pm 10\%$ , M :  $\pm 20\%$ )

## Specifications

Part Number	Inductance (nH) S: $\pm 0.3$ , J: $\pm 5\%$	Q Min.	Test Frequency (MHz)	SRF (GHz) Min.	DC Resistance (ohm) Max.	Rated Current (mA) Max.
CMI-RMC11005-1N0S	1.0	8	100	10	0.08	300
CMI-RMC11005-1N2S	1.2	8	100	10	0.09	300
CMI-RMC11005-1N5S	1.5	8	100	6	0.10	300
CMI-RMC11005-1N8S	1.8	8	100	6	0.12	300
CMI-RMC11005-2N0S	2.0	8	100	6	0.12	300
CMI-RMC11005-2N2S	2.2	8	100	6	0.13	300
CMI-RMC11005-2N4S	2.4	8	100	6	0.13	300
CMI-RMC11005-2N7S	2.7	8	100	6	0.13	300
CMI-RMC11005-3N0S	3.0	8	100	6	0.16	300
CMI-RMC11005-3N3S	3.3	8	100	6	0.16	300
CMI-RMC11005-3N9S	3.9	8	100	4	0.21	300
CMI-RMC11005-4N7S	4.7	8	100	4	0.21	300
CMI-RMC11005-5N6S	5.6	8	100	4	0.23	300
CMI-RMC11005-6N8J	6.8	8	100	3.9	0.25	300
CMI-RMC11005-8N2J	8.2	8	100	3.6	0.28	300
CMI-RMC11005-10NJ	10	8	100	3.2	0.31	300
CMI-RMC11005-12NJ	12	8	100	2.7	0.40	300
CMI-RMC11005-15NJ	15	8	100	2.3	0.46	300
CMI-RMC11005-18NJ	18	8	100	2.1	0.55	300
CMI-RMC11005-22NJ	22	8	100	1.9	0.60	300
CMI-RMC11005-27NJ	27	8	100	1.6	0.70	300

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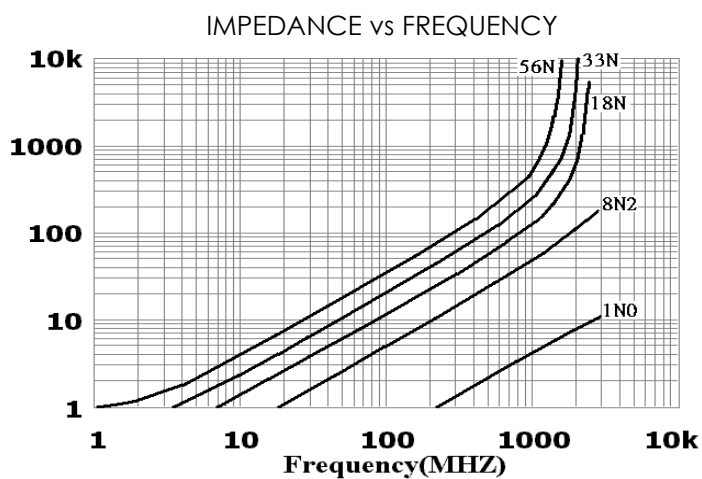
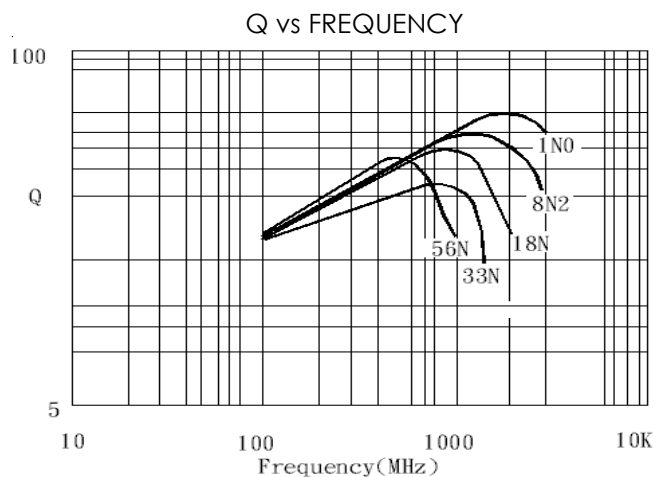
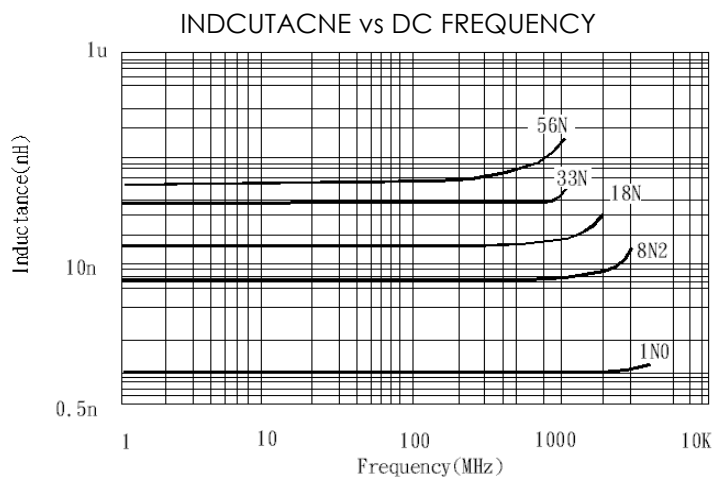
Part Number	Inductance (nH) S: ±0.3, J: ±5%	Q Min.	Test Frequency (MHz)	SRF (GHz) Min.	DC Resistance (ohm) Max.	Rated Current (mA) Max.
CMI-RMCI1005-33NJ	33	8	100	1.3	0.80	200
CMI-RMCI1005-39NJ	39	8	100	1.2	0.90	200
CMI-RMCI1005-47NJ	47	8	100	1.0	1.00	200
CMI-RMCI1005-56NJ	56	8	100	0.75	1.00	200
CMI-RMCI1005-68NJ	68	8	100	0.75	1.20	180
CMI-RMCI1005-82NJ	82	8	100	0.60	1.30	150
CMI-RMCI1005-R10J	100	8	100	0.60	1.50	150
CMI-RMCI1005-R12J	120	8	100	0.60	1.60	150

- 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.

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## Electrical characteristics

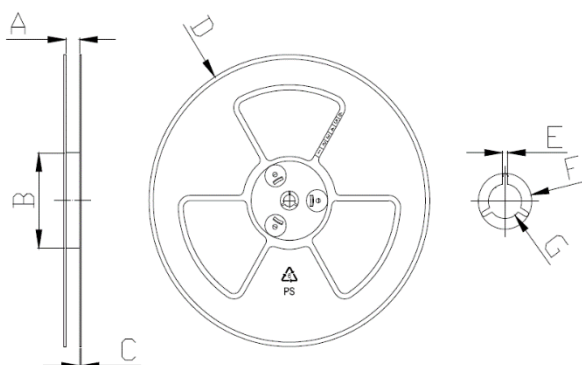


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## Packaging

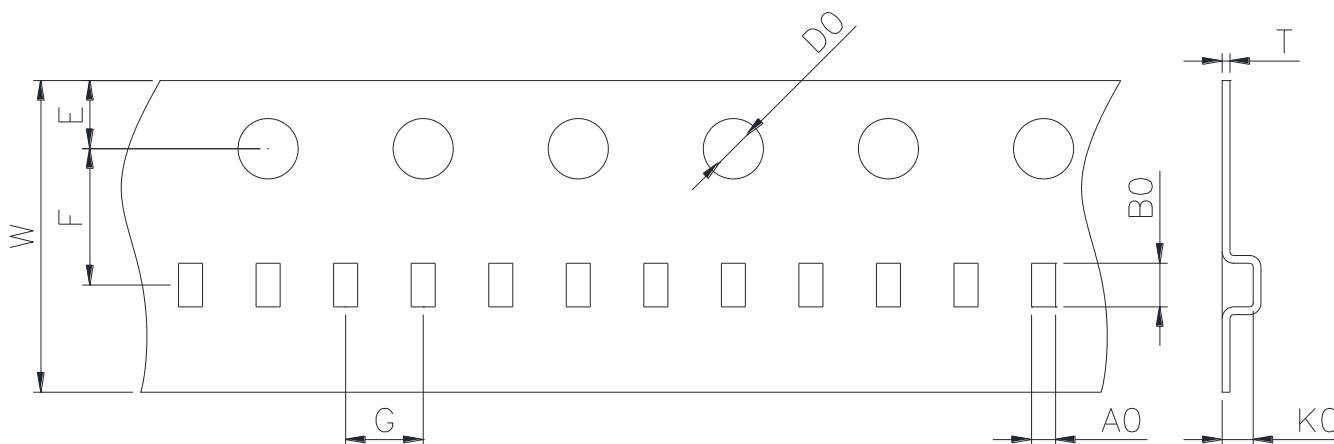
(1) Package quantity : 10,000 (pcs/reel)

(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	0.65	1.15	0.20	1.75	3.50	2.00	1.50	0.80
+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

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