



# CMI-RWCI1005-SERIES

## Features

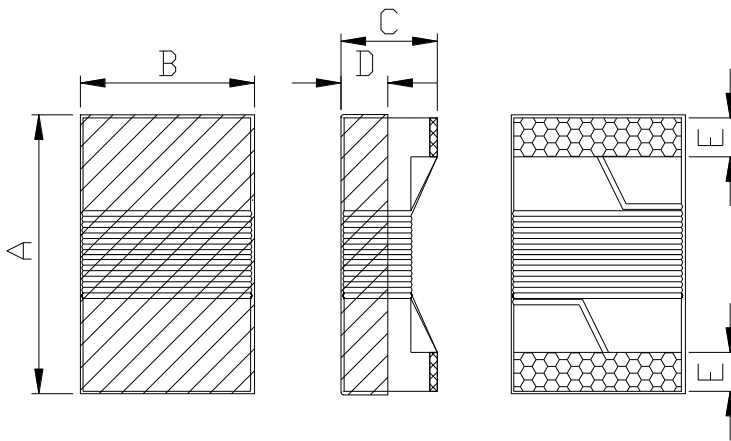
- ▶ Halogen-Free / RoHS compliant.
- ▶ Support operating frequency up to 10GHz.
- ▶ Provide high quality factor.
- ▶ Monolithic structure for high reliability.
- ▶ Excellent solderability and high heat resistance for either flow or reflow soldering.



## Applications

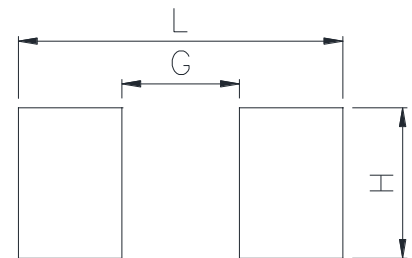
- ▶ RF circuit and module.
- ▶ Tablet, Notebook, Desktop computers and peripheral equipment
- ▶ DSC, DVC, LCD Television, Set Top Box.
- ▶ Mobile phone, Smart phone, PND
- ▶ Digital communication equipment
- ▶ Various electronic equipment.
- ▶ Various automotive electronics

## Dimension (Unit:mm)



A	B	C	D	E
1.0±0.1	0.55±0.1	0.5±0.1	0.5	0.2±0.1

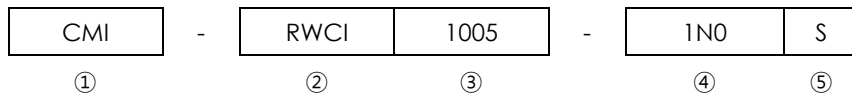
## Land Pattern (Unit:mm)



L	G	H
2.1	0.5	0.55

- You can also contact us by e-mail : [coilmaster@coilmaster.com](mailto:coilmaster@coilmaster.com)
- All specifications are subject to change without notice.
- Update date : 2023.03.29

## 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)	Q Min.	Test Frequency (MHz)	SRF (MHz) Min.	DC Resistance (ohm) Max.	Rated Current (mA) Max.
CMI-RWCI1005-1N0B,S	1.0	13	250	6000	0.045	1360
CMI-RWCI1005-2N0B,S	2.0	16	250	6000	0.070	1040
CMI-RWCI1005-2N2B,S	2.2	18	250	6000	0.070	960
CMI-RWCI1005-3N3B,S	3.3	20	250	6000	0.066	840
CMI-RWCI1005-3N6J,K	3.6	20	250	6000	0.066	840
CMI-RWCI1005-3N9J,K	3.9	20	250	5800	0.066	840
CMI-RWCI1005-5N1B,J,K	5.1	23	250	5800	0.083	800
CMI-RWCI1005-5N6B,J,K	5.6	23	250	5800	0.083	760
CMI-RWCI1005-6N2B,J,K	6.2	23	250	5800	0.083	760
CMI-RWCI1005-7N5B,J,K	7.5	25	250	5800	0.104	680
CMI-RWCI1005-8N2B,J,K	8.2	25	250	4400	0.104	680
CMI-RWCI1005-9N0B,J,K	9.0	25	250	4160	0.104	680
CMI-RWCI1005-10NG,K	10	23	250	3900	0.195	480
CMI-RWCI1005-11NG,K	11	26	250	3680	0.120	640
CMI-RWCI1005-12NG,K	12	26	250	3600	0.120	640
CMI-RWCI1005-15NG,K	15	26	250	3280	0.172	560
CMI-RWCI1005-19NG,K	19	26	250	3040	0.202	480
CMI-RWCI1005-23NG,K	23	26	250	2720	0.214	400
CMI-RWCI1005-27NG,K	27	26	250	2480	0.28	400
CMI-RWCI1005-36NG,K	36	26	250	2320	0.403	320

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Part Number	Inductance (nH)	Q Min.	Test Frequency (MHz)	SRF (GHz) Min.	DC Resistance (ohm) Max.	Rated Current (mA) Max.
CMI-RWC11005-40NG,K	40	26	250	2240	0.438	320
CMI-RWC11005-47NG,K	47	26	200	2100	0.830	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 : -40 °c ~ +85 °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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