



CMI-RWCI2012-SERIES

Features

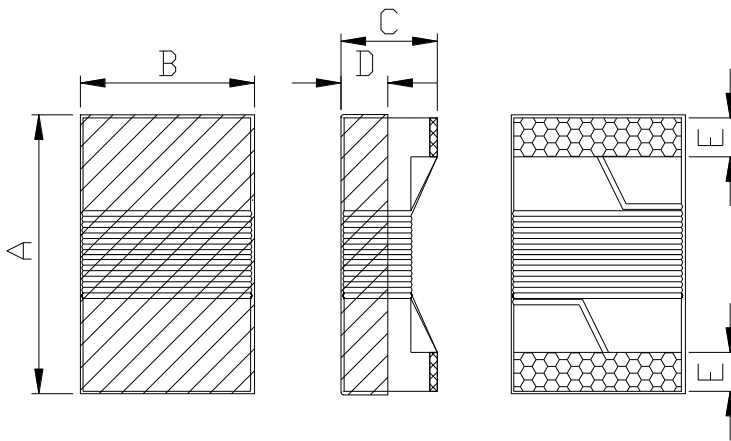
- ▶ Halogen-Free / RoHS compliant.
- ▶ Support operating frequency up to 10GHz.
- ▶ Provide high quality factor.
- ▶ Monolithic structure for high reliability.
- ▶ Excellent solderability and high heat resistance for either flow or reflow soldering.



Applications

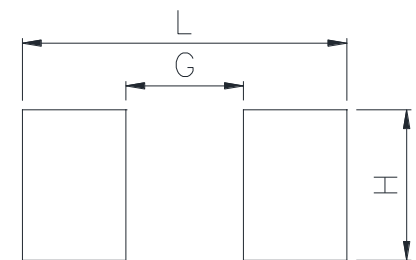
- ▶ RF circuit and module.
- ▶ Tablet, Notebook, Desktop computers and peripheral equipment
- ▶ DSC, DVC, LCD Television, Set Top Box.
- ▶ Mobile phone, Smart phone, PND
- ▶ Digital communication equipment
- ▶ Various electronic equipment.
- ▶ Various automotive electronics

Dimension (Unit:mm)



A	B	C	D	E
2.0±0.2	1.25±0.2	1.2±0.2	0.5	0.4±0.1

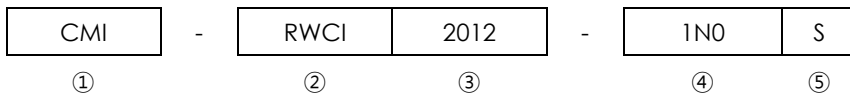
Land Pattern (Unit:mm)



L	G	H
2.3	1.3	1.3

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 • 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.
			L	Q			
CMI-RWCI2012-2N2B,S	2.2	50	250	1000	6000	0.06	800
CMI-RWCI2012-2N7B,S	2.7	35	250	1000	6000	0.08	800
CMI-RWCI2012-3N3B,S	3.3	60	250	1000	6000	0.08	800
CMI-RWCI2012-3N9B,S	3.9	60	250	1000	6000	0.06	600
CMI-RWCI2012-4N7B,S	4.7	60	250	1000	5800	0.06	600
CMI-RWCI2012-5N6B,J,K	5.6	60	250	1000	5800	0.08	600
CMI-RWCI2012-6N8B,J,K	6.8	60	250	1000	5500	0.06	600
CMI-RWCI2012-8N2B,J,K	8.2	60	250	1000	5500	0.06	600
CMI-RWCI2012-10NG,J,K	10	60	250	500	4800	0.08	600
CMI-RWCI2012-12NG,J,K	12	60	250	500	4100	0.08	600
CMI-RWCI2012-15NG,J,K	15	60	250	500	3600	0.08	600
CMI-RWCI2012-18NG,J,K	18	60	250	500	3400	0.08	600
CMI-RWCI2012-22NG,J,K	22	60	250	500	3300	0.10	600
CMI-RWCI2012-27NG,J,K	27	60	250	500	2600	0.12	600
CMI-RWCI2012-33NG,J,K	33	60	250	500	2400	0.15	500
CMI-RWCI2012-39NG,J,K	39	60	250	500	2100	0.18	500
CMI-RWCI2012-47NG,J,K	47	60	200	500	1700	0.15	500
CMI-RWCI2012-56NG,J,K	56	60	200	500	1600	0.25	500
CMI-RWCI2012-68NG,J,K	68	60	200	500	1450	0.27	500
CMI-RWCI2012-82NG,J,K	82	60	150	500	1350	0.32	500
CMI-RWCI2012-R10G,J,K	100	60	150	500	1200	0.43	500

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			L	Q			
CMI-RWCI2012-R12G,J,K	120	60	150	250	1100	0.48	500
CMI-RWCI2012-R15G,J,K	150	50	100	250	950	0.56	400
CMI-RWCI2012-R18G,J,K	180	50	100	250	900	0.78	400
CMI-RWCI2012-R22G,J,K	220	50	100	250	860	1.00	400
CMI-RWCI2012-R27G,J,K	270	45	100	250	850	1.46	350
CMI-RWCI2012-R33G,J,K	330	45	100	250	800	1.65	300
CMI-RWCI2012-R39G,J,K	390	45	100	250	780	2.20	210
CMI-RWCI2012-R47J,K	470	45	252	100	375	0.95	500
CMI-RWCI2012-R56J,K	560	45	25.2	100	340	1.10	450
CMI-RWCI2012-R68J,K	680	35	25.2	100	188	1.20	400
CMI-RWCI2012-R82J,K	820	35	25.2	100	215	1.50	300
CMI-RWCI2012-1R0J,K	1000	35	25.2	50	200	2.13	180
CMI-RWCI2012-1R2J,K	1200	15	7.96	7.96	200	2.38	150
CMI-RWCI2012-1R5J,K	1500	15	7.96	7.96	200	2.90	130
CMI-RWCI2012-1R8J,K	1800	15	7.96	7.96	120	3.00	120
CMI-RWCI2012-2R2J,K	2200	15	7.96	7.96	110	3.10	110
CMI-RWCI2012-2R7J,K	2700	15	7.96	7.96	100	3.50	100
CMI-RWCI2012-3R3J,K	3300	15	7.96	7.96	70	2.30	210
CMI-RWCI2012-3R9J,K	3900	15	7.96	7.96	60	2.50	200
CMI-RWCI2012-4R7J,K	4700	15	7.96	7.96	50	2.80	180
CMI-RWCI2012-5R6J,K	5600	15	7.96	7.96	45	3.00	160
CMI-RWCI2012-6R8J,K	6800	15	7.96	7.96	45	3.20	130
CMI-RWCI2012-8R2J,K	8200	15	7.96	7.96	40	3.50	120
CMI-RWCI2012-100J,K	10000	15	2.52	2.52	40	5.00	80

- 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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