

CMI-NMCI2012-SERIES

Features

- ▶ Halogen-Free / RoHS compliant.
- ▶ Monolithic structure for high reliability
- ▶ Dimensions are unified for automatic mounting.
- ▶ Excellent solderability and high heat resistance for either flow or reflow soldering.
- ▶ No cross coupling between inductors due to magnetic shield and is suitable for high density printed circuit boards.

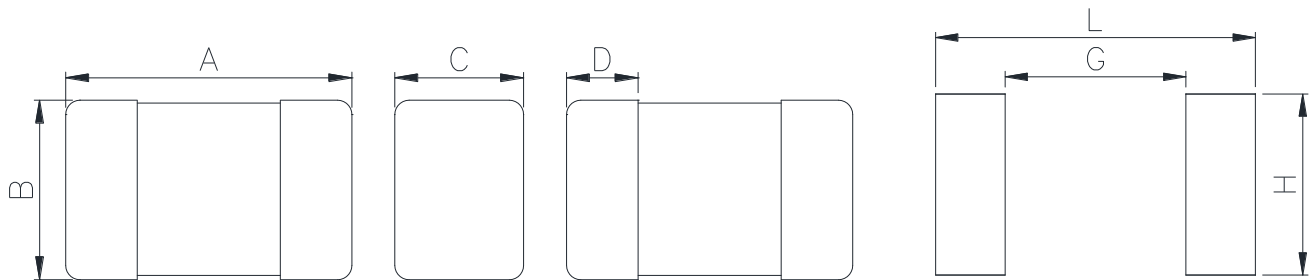


Applications

- ▶ Mother board, Tablet PC, 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
- ▶ Circuit where a stable ground is unavailable

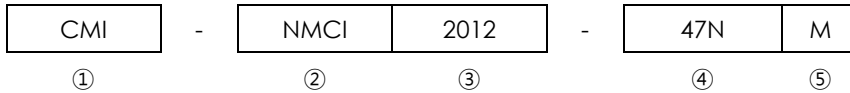
Dimension (Unit:mm)

Land Pattern (Unit:mm)



Inductance Value(uH)	A	B	C	D	L	G	H
0.047~2.2	2.0±0.2	1.25±0.2	0.85±0.2	0.1~0.8	2.3	1.3	1.3
2.7~100	2.0±0.2	1.25±0.2	1.25±0.2	0.1~0.8	2.3	1.3	1.3

Regulation of part number



- ① CoilMaster's initial
- ② Product Series Name
- ③ Core Size (unit:mm)
- ④ Inductance Value (47N : 47 nH)
- ⑤ Inductance Tolerance (G : ±2%, J : ±5%, K : ±10%, M : ±20%)

Specifications

Part Number	Inductance (μ H) K: ±10%, M: ±20%	Q Min.	Test Frequency (MHz)	SRF (MHz) Min.	DC Resistance (ohm) Max.	Rated Current (mA) Max.
CMI-NMCI2012-47NM	0.047	15	50	320	0.20	300
CMI-NMCI2012-68NM	0.068	15	50	280	0.20	300
CMI-NMCI2012-82NM	0.082	15	50	255	0.20	300
CMI-NMCI2012-R10K,M	0.10	20	25	235	0.30	250
CMI-NMCI2012-R12K,M	0.12	20	25	220	0.30	250
CMI-NMCI2012-R15K,M	0.15	20	25	200	0.40	250
CMI-NMCI2012-R18K,M	0.18	20	25	185	0.40	250
CMI-NMCI2012-R22K,M	0.22	20	25	170	0.50	250
CMI-NMCI2012-R27K,M	0.27	20	25	150	0.50	250
CMI-NMCI2012-R33K,M	0.33	20	25	145	0.55	250
CMI-NMCI2012-R39K,M	0.47	25	25	135	0.65	200
CMI-NMCI2012-R47K,M	0.47	25	25	125	0.65	200
CMI-NMCI2012-R56K,M	0.56	25	25	115	0.75	150
CMI-NMCI2012-R68K,M	0.68	25	25	105	0.80	150
CMI-NMCI2012-R82K,M	0.82	25	25	100	1.00	150
CMI-NMCI2012-1R0K,M	1.0	45	10	75	0.40	50
CMI-NMCI2012-1R2K,M	1.2	45	10	65	0.50	50
CMI-NMCI2012-1R5K,M	1.5	45	10	60	0.50	50
CMI-NMCI2012-1R8K,M	1.8	45	10	55	0.60	50
CMI-NMCI2012-2R2K,M	2.2	45	10	50	0.65	30
CMI-NMCI2012-2R7K,M	2.7	45	10	45	0.75	30

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

- All specifications are subject to change without notice.
- Update date : 2023.03.29

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Part Number	Inductance (uH) Tolerance	Q Min.	Test Frequency (MHz)	SRF (MHz) Min.	DC Resistance (ohm) Max.	Rated Current (mA) Max.
CMI-NMCI2012-3R3K,M	3.3	45	10	41	0.80	30
CMI-NMCI2012-3R9K,M	3.9	45	10	38	0.90	30
CMI-NMCI2012-4R7K,M	4.7	45	10	35	1.00	30
CMI-NMCI2012-5R6K,M	5.6	50	4	32	0.90	15
CMI-NMCI2012-6R8K,M	6.8	50	4	29	1.00	15
CMI-NMCI2012-8R2K,M	8.2	50	4	26	1.10	15
CMI-NMCI2012-100K,M	10	50	2	24	1.15	15
CMI-NMCI2012-120K,M	12	50	2	22	1.25	15
CMI-NMCI2012-150K,M	15	30	1	19	0.80	5
CMI-NMCI2012-180K,M	18	30	1	18	0.90	5
CMI-NMCI2012-220K,M	22	30	1	16	1.10	5
CMI-NMCI2012-270K,M	27	30	1	14	1.15	5
CMI-NMCI2012-330K,M	33	30	1	13	1.25	5
CMI-NMCI2012-390K,M	39	35	1	8	2.90	4
CMI-NMCI2012-101K,M	100	25	1	7	3.10	2

- 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

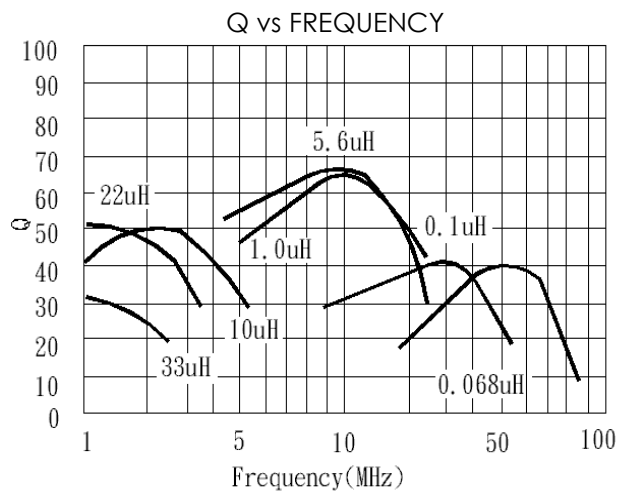
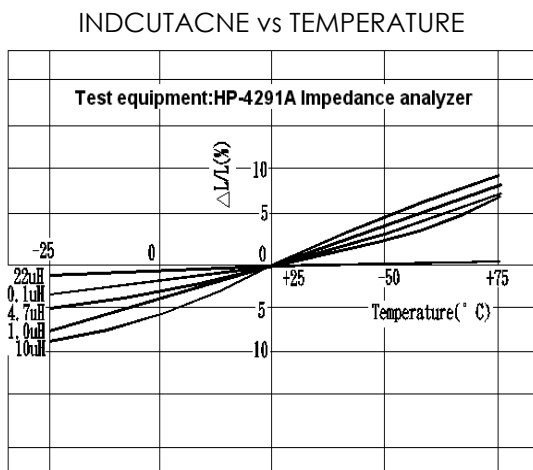
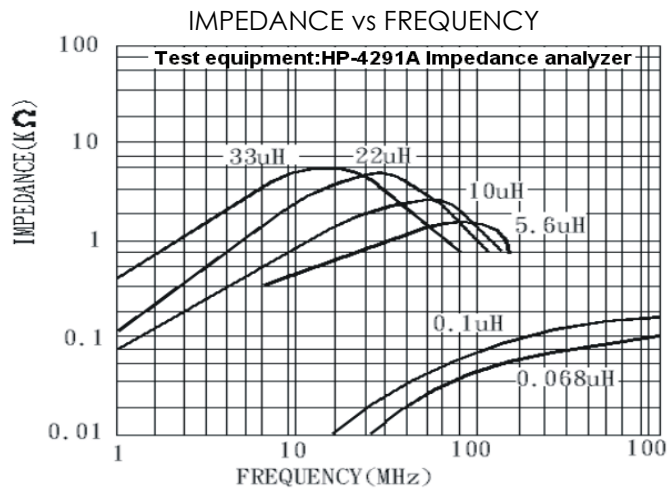
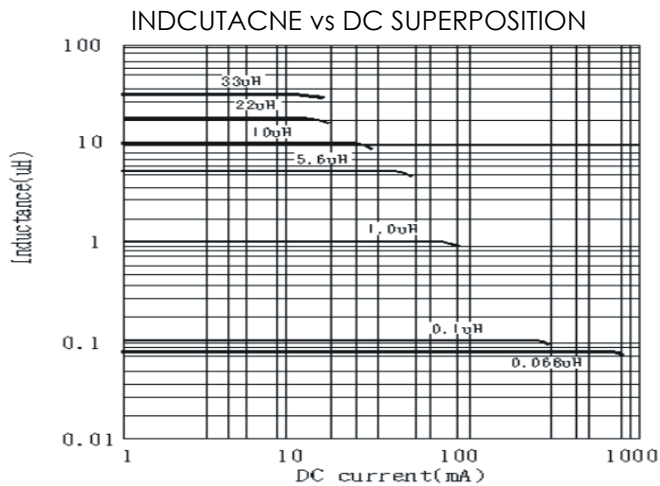
Note 1 : Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

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Electrical characteristics

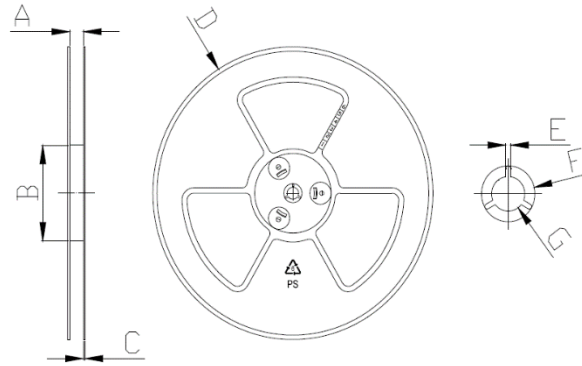


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Packaging

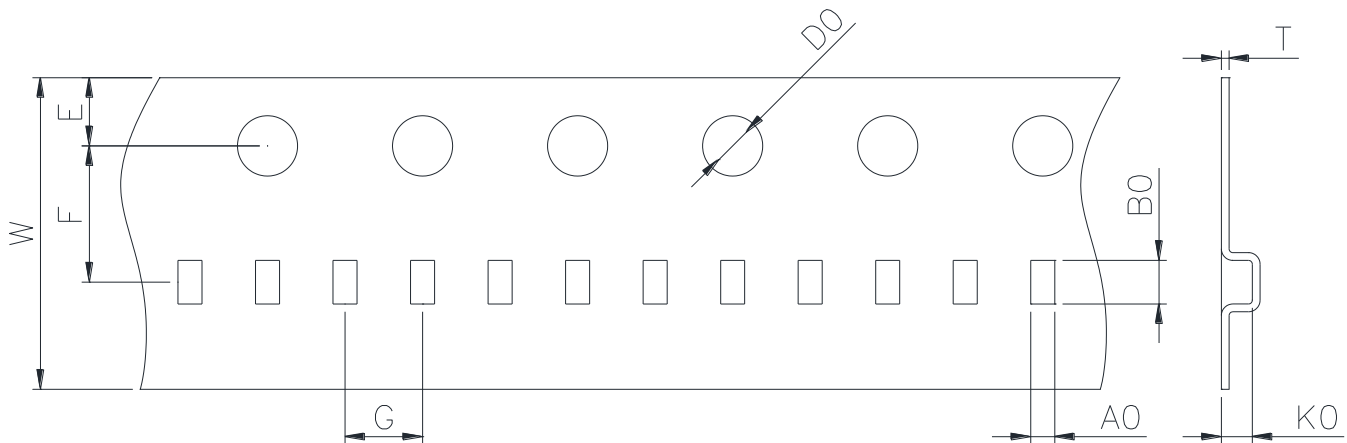
(1) Package quantity : 4,000 (pcs/reel)

(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	1.55	2.30	0.20	1.75	3.50	4.00	1.50	1.20
+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

Ilsan Sales Office (KOREA) +82)31-904-1444
 China Sales Office (CHINA) +86)758-278-7031
 Hungary Sales office (EUROPE) +36)1-899-8543

H.K Sales Office (HONGKONG) +852)2711-5551
 LA Sales Office (USA) +1)866-446-3586

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