

CMI-NMCI1 608-SERIES

Features

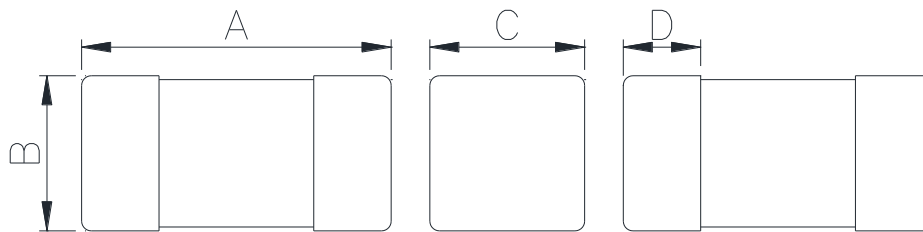
- ▶ Halogen-Free / RoHS compliant.
- ▶ Monolithic structure for high reliability
- ▶ Dimensions are unified for automatic mounting.
- ▶ Excellent solderability and high heat resistance for either flow or reflow soldering.
- ▶ No cross coupling between inductors due to magnetic shield and is suitable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



Applications

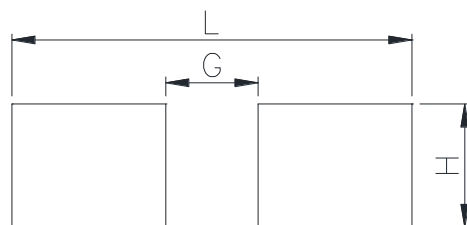
- ▶ Mother board, Tablet PC, Notebook, Desktop computers and peripheral equipment
- ▶ DSC, DVC, LCD Television, Set Top Box.
- ▶ Mobile phone, Smart phone, PND
- ▶ Digital communication equipment
- ▶ Various electronic equipment.
- ▶ Various automotive electronics
- ▶ Circuit where a stable ground is unavailable

Dimension (Unit:mm)



A	B	C	D
1.6±0.15	0.8±0.15	0.8±0.15	0.2~0.6

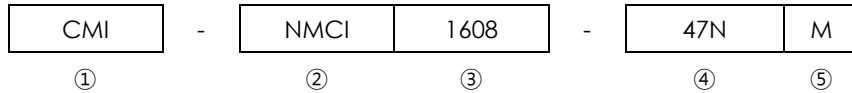
Land Pattern (Unit:mm)



L	G	H
2.6	0.6	0.8

- You can also contact us by e-mail : 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 (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-NMCI1608-47NM	0.047	10	50	260	0.30	50
CMI-NMCI1608-68NM	0.068	10	50	250	0.30	50
CMI-NMCI1608-82NM	0.082	10	50	245	0.30	50
CMI-NMCI1608-R10K,M	0.10	15	25	240	0.50	50
CMI-NMCI1608-R12K,M	0.12	15	25	205	0.50	50
CMI-NMCI1608-R15K,M	0.15	15	25	180	0.60	50
CMI-NMCI1608-R18K,M	0.18	15	25	165	0.60	50
CMI-NMCI1608-R22K,M	0.22	15	25	150	0.80	50
CMI-NMCI1608-R27K,M	0.27	15	25	136	0.80	50
CMI-NMCI1608-R33K,M	0.33	15	25	125	0.85	35
CMI-NMCI1608-R39K,M	0.47	15	25	110	1.00	35
CMI-NMCI1608-R47K,M	0.47	15	25	105	1.35	35
CMI-NMCI1608-R56K,M	0.56	15	25	95	1.55	35
CMI-NMCI1608-R68K,M	0.68	15	25	90	1.70	35
CMI-NMCI1608-R82K,M	0.82	15	25	85	2.10	35
CMI-NMCI1608-1R0K,M	1.0	35	10	75	0.60	25
CMI-NMCI1608-1R2K,M	1.2	35	10	65	0.80	25
CMI-NMCI1608-1R5K,M	1.5	35	10	60	0.80	25
CMI-NMCI1608-1R8K,M	1.8	35	10	55	0.95	25
CMI-NMCI1608-2R2K,M	2.2	35	10	50	1.15	15
CMI-NMCI1608-2R7K,M	2.7	35	10	45	1.35	15

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

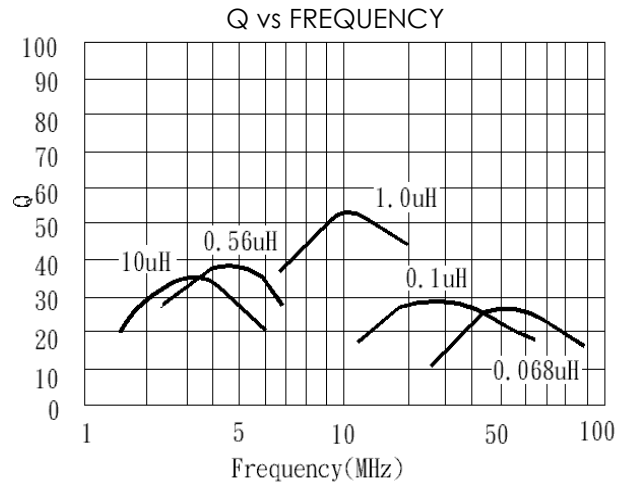
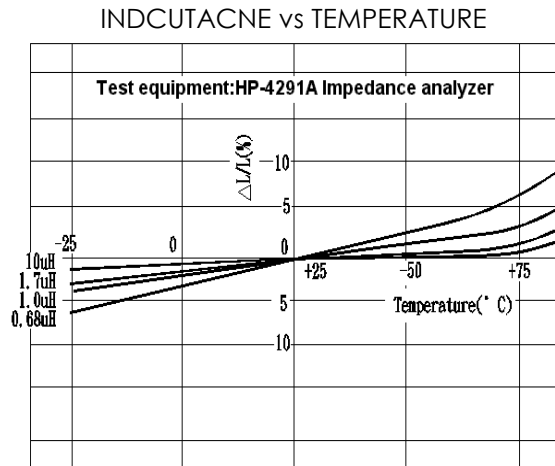
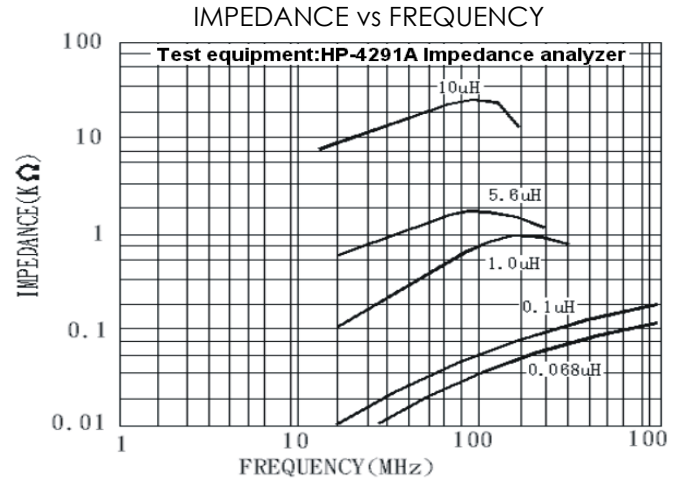
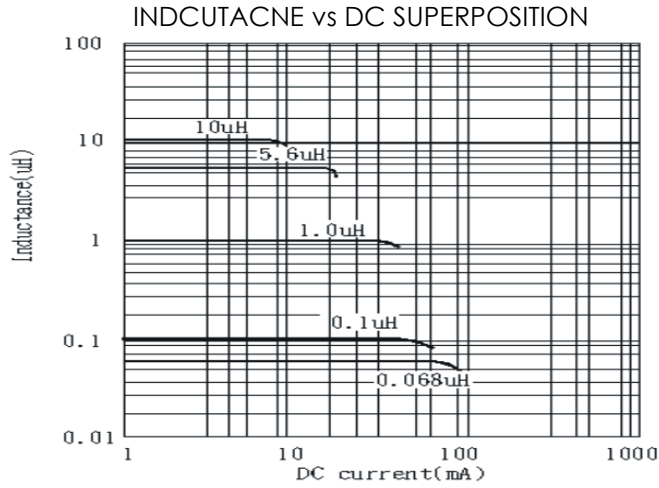
- All specifications are subject to change without notice.
- Update date : 2023.03.29

Part Number	Inductance (uH) Tolerance	Q Min.	Test Frequency (MHz)	SRF (MHz) Min.	DC Resistance (ohm) Max.	Rated Current (mA) Max.
CMI-NMCI1608-3R3K,M	3.3	35	10	40	1.55	15
CMI-NMCI1608-3R9K,M	3.9	35	10	35	1.70	15
CMI-NMCI1608-4R7K,M	4.7	35	10	33	2.10	15
CMI-NMCI1608-5R6K,M	5.6	35	4	22	1.55	5
CMI-NMCI1608-6R8K,M	6.8	35	4	20	1.70	5
CMI-NMCI1608-8R2K,M	8.2	35	4	18	2.10	5
CMI-NMCI1608-100K,M	10	30	2	17	1.85	3
CMI-NMCI1608-120K,M	12	30	2	15	2.10	3
CMI-NMCI1608-150K,M	15	20	1	14	1.70	1
CMI-NMCI1608-180K,M	18	15	1	13	2.00	1
CMI-NMCI1608-220K,M	22	15	1	11	2.10	1

- 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.

Electrical characteristics

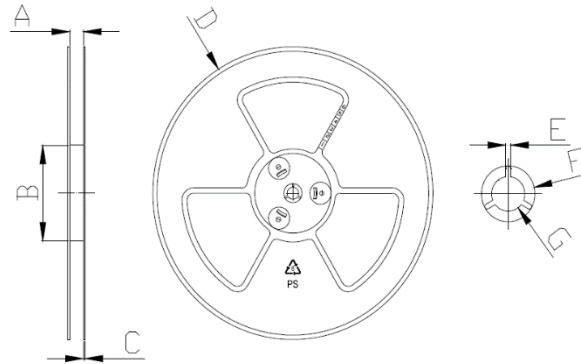


- You can also contact us by e-mail : coilmaster@coilmaster.com
- All specifications are subject to change without notice.
- Update date : 2023.03.29

Packaging

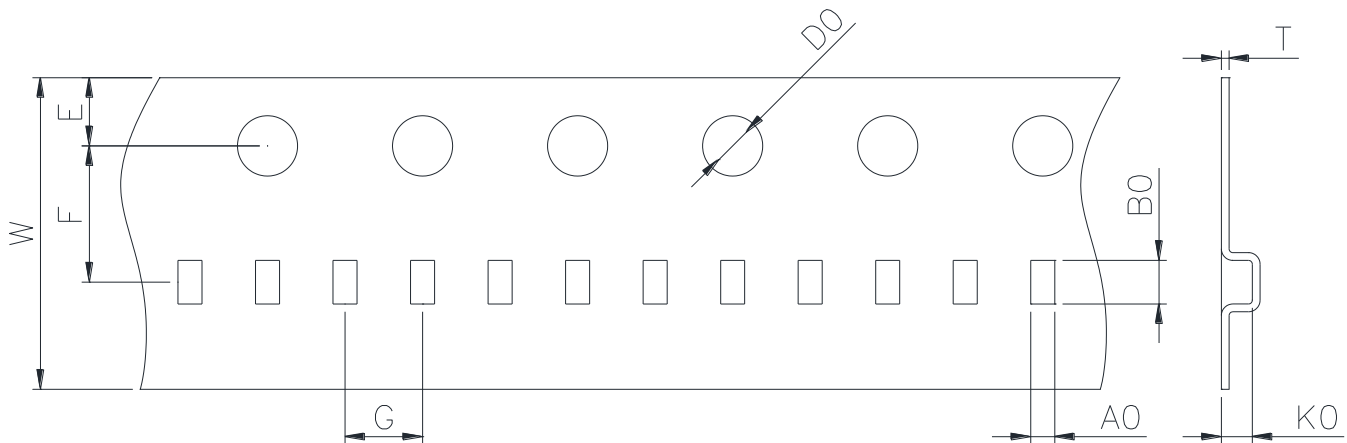
(1) Package quantity : 4,000 (pcs/reel)

(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

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

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

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

www.coilmaster.com