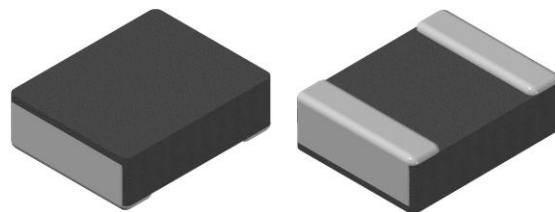


CMI-CMMPF252008LC-SERIES

Features

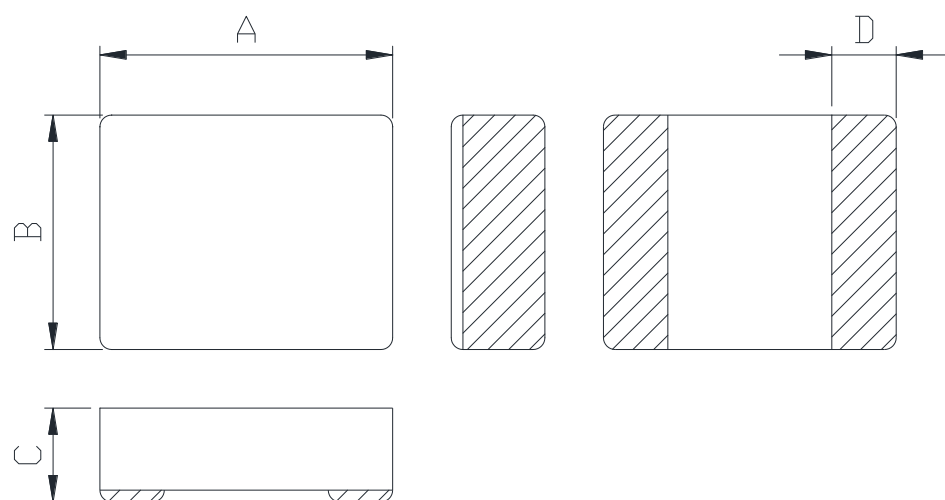
- ▶ Small size and Low profile.
- ▶ Compact design.
- ▶ Lower DCR with applying flat wire
- ▶ Metal powder molding type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free.
- ▶ RoHS compliant.
- ▶ AEC-Q200 qualified.



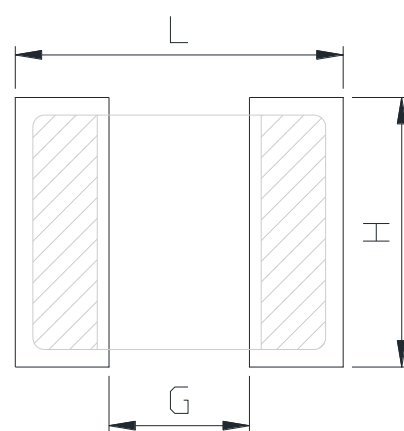
Applications

- ▶ Car navigation, Car Audio, ADAS ECU,
In-C-Vehicle camera (View camera, Sensing camera), Automotive communication module.

Dimension (Unit:mm)



Land Pattern (Unit:mm)



A	B	C	D
2.5 ±0.2	2.0 ±0.2	0.8 Max.	0.55 ±0.25

L	G	H
2.8	1.2	2.3

- You can also contact us by e-mail : coilmaster@coilmaster.com
- All specifications are subject to change without notice.
- Update date : 2025.06.19 (Rev.0.0)

Regulation of part number

CMI	-	CMPMPF	252008	LC	-	R040	M
①		②	③	④		⑤	⑥

- ① CoilMaster's initial
- ② Series Name : Car Metal Molded Flat wire Power inductor
- ③ Core Size (unit:mm)
- ④ Type
- ⑤ Typical inductance value (40nH)
- ⑥ Inductance tolerance ($\pm 20\%$)

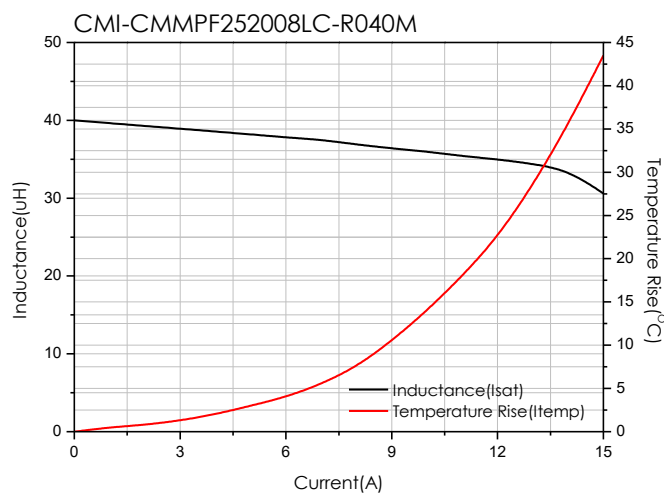
Specifications

Part Number	Inductance (μH) $\pm 20\%$	DCR(mohm) Max.(Typ.)	Isat(A) Max.(Typ.)	Itemp(A) Max.(Typ.)	Test Frequency (Hz)
CMI-CMPMPF252008LC-R040M	40	2.4(2.0)	12.0(13.0)	13.0(14.0)	1M

- Isat: When based on the inductance change rate (Approximately 30% below in the initial value)
- Itemp: When based on the temperature increase (Temperature increase of approximately 40°C by self heating)
- Operating Temperature Range (including self temperature) : -40°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

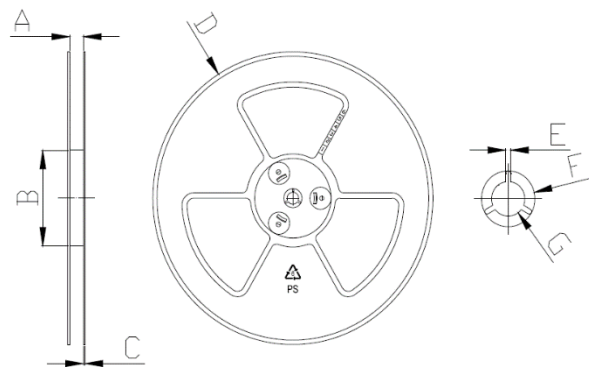


- You can also contact us by e-mail : coilmaster@coilmaster.com
- All specifications are subject to change without notice.
- Update date : 2025.06.19 (Rev.0.0)

Packaging

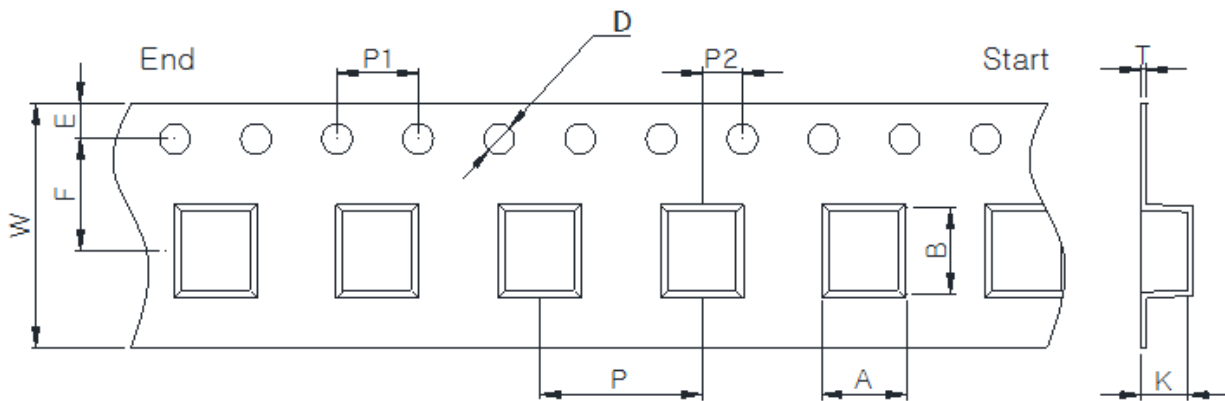
(1) Package quantity : 3,000 (pcs/reel)

(2) Reel Dimensions (unit:mm)



A	B	C	D	E	F	G
8.50	60.0	1.50	178.0	2.70	22.50	13.50
+0.50	+2.00	+0.20	+1.00	+0.30	+0.50	+0.50
-0.50	-2.00	-0.20	-1.00	-0.30	-0.50	-0.50

(3) Tape Dimensions



W	A	B	K	E	F	P	P1	P2	D	T
8.00	2.35	2.80	0.95	1.75	3.50	4.00	4.00	2.00	1.50	0.25
+0.10	+0.05	+0.05	+0.05	+0.10	+0.05	+0.10	+0.10	+0.10	+0.10	+0.05
-0.10	-0.05	-0.05	-0.05	-0.10	-0.05	-0.10	-0.10	-0.10	-0.00	-0.05

Korea Sales Office (KOREA) +82)31-904-1444 H.K Sales Office (HONGKONG) +852)2711-5551
China Sales Office (CHINA) +86)0758-683-1444 LA Sales Office (USA) +1)714-616-6989
Hungary Sales office (EUROPE) +36)1-404-5832

• You can also contact us by e-mail : coilmaster@coilmaster.com
• All specifications are subject to change without notice.
• Update date : 2025.06.19 (Rev.0.0)