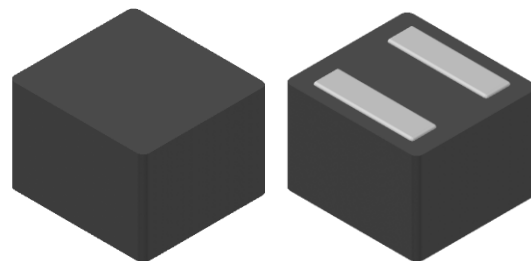


CMI-CMMPF10080QL-SB SERIES

Features

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

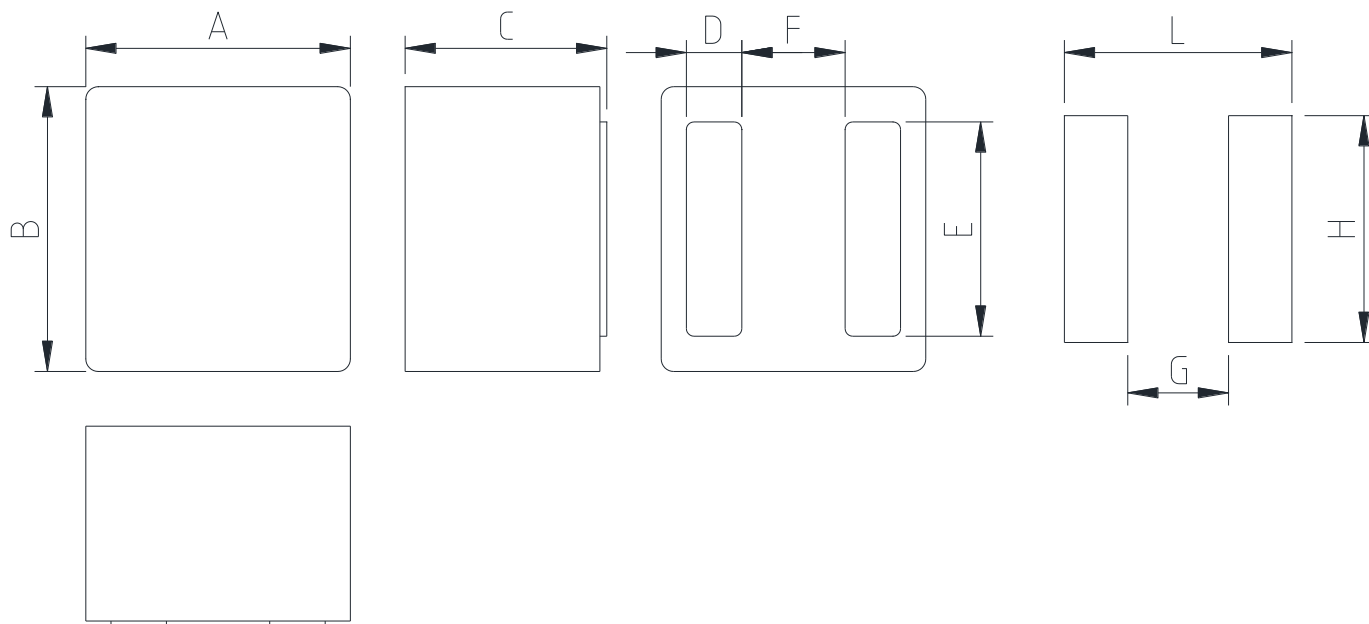


Applications

- ▶ Equipment using for automobiles (ECM, Airbags, Headlights, Electronic Power steering, Motors, ABS, other)

Dimension (Unit:mm)

Land Pattern (Unit:mm)



A	B	C	D	E	F
10.5 ±0.5	11.3 ±0.5	8.0 Max.	2.2 ±0.2	8.5 Typ.	4.1 Typ.

G	H	L
4.00	9.00	9.03

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Regulation of part number

CMI	-	CMMPF	10080	QL	-	1R0	M	-	SB
①		②	③	④		⑤	⑥		⑦

- ① CoilMaster's initial
- ② Series Name : Car Metal Molded Power inductor Flat wire type.
- ③ Core Size (unit:mm)
- ④ Material
- ⑤ Typical inductance value (1.0uH)
- ⑥ Inductance tolerance (±20%)
- ⑦ Type (SB)

Specifications

Part Number	Inductance (uH) ±20%	DCR(mohm) Max.(Typ.)	Isat(A) Max.(Typ.)	Itemp(A) Max.(Typ.)	Test Frequency (Hz)
CMI-CMMPF10080QL-1R0M-SB	1.0	1.4(1.2)	40.0(45.0)	40.0(45.0)	1M
CMI-CMMPF10080QL-3R3M-SB	3.3	4.8(4.0)	23.0(25.0)	28.0(30.0)	1M
CMI-CMMPF10080QL-4R7M-SB	4.7	6.0(5.0)	20.0(22.0)	25.0(27.0)	1M
CMI-CMMPF10080QL-5R6M-SB	5.6	7.2(6.0)	19.0(21.0)	24.0(26.0)	1M
CMI-CMMPF10080QL-6R8M-SB	6.8	10.2(8.5)	18.0(20.0)	22.0(24.0)	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 ~ +165 °c

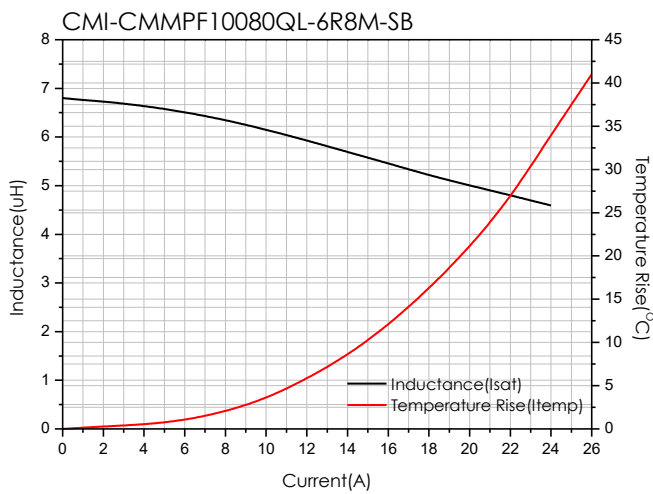
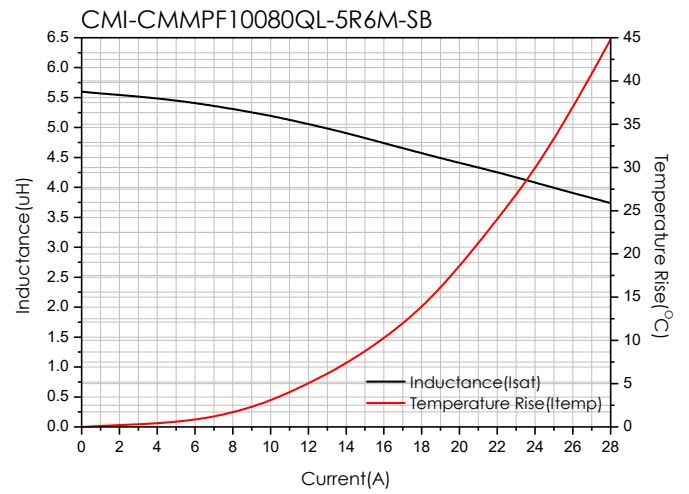
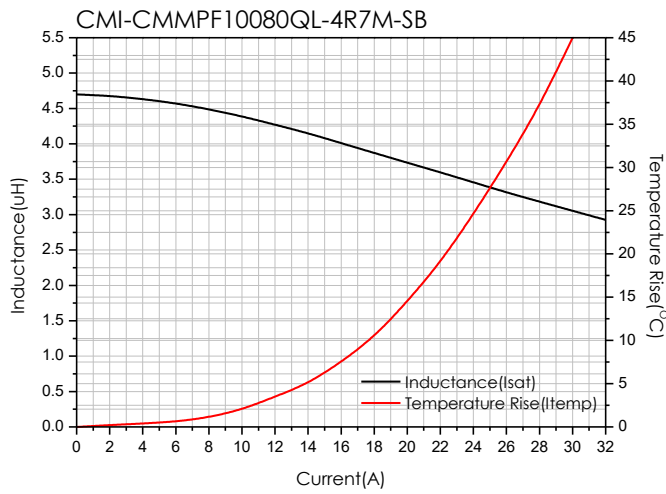
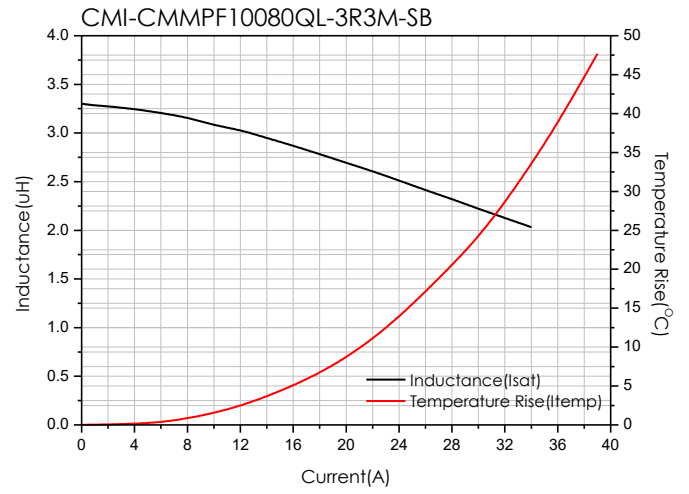
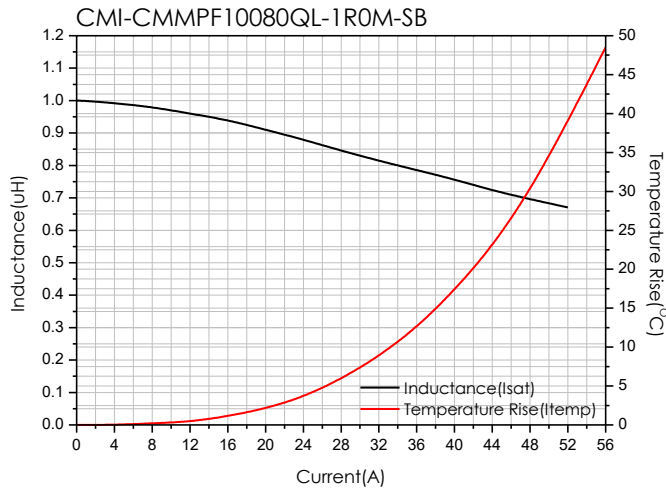
Note 1 : Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

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Electrical characteristics

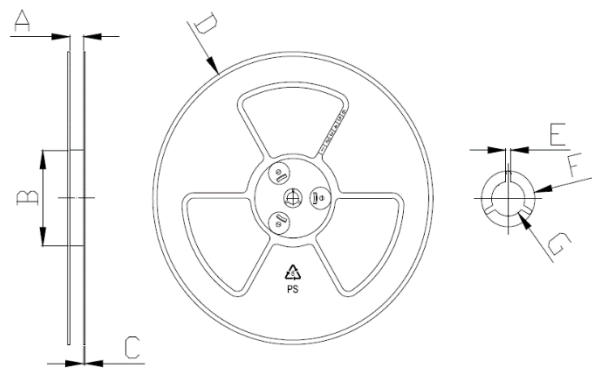


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Packaging

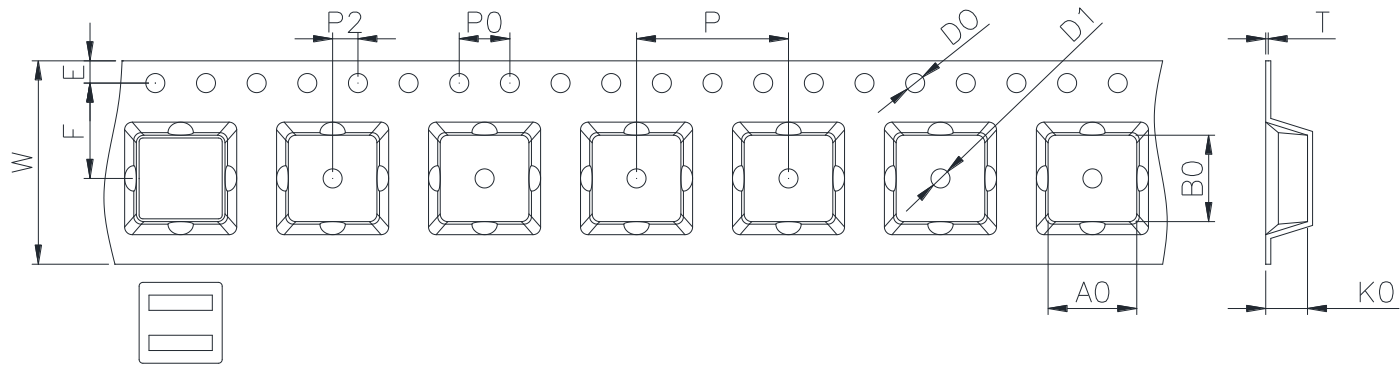
(1) Package quantity : 350 (pcs/reel)

(2) Reel Dimensions (unit:mm)



A	B	C	D	E	F	G
24.50	100.0	2.00	330.0	2.30	21.50	13.00
+0.50	+1.00	+0.20	+3.00	+0.30	+0.30	+0.50
-0.50	-1.00	-0.20	-3.00	-0.30	-0.30	-0.20

(3) Tape Dimensions



W	A0	B0	K0	E	F	P	P0	P2	D0/D1	T
24.00	12.00	10.80	8.30	1.75	11.50	16.00	4.00	2.00	1.50	0.40
+0.30	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.05
-0.30	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.00	-0.05

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