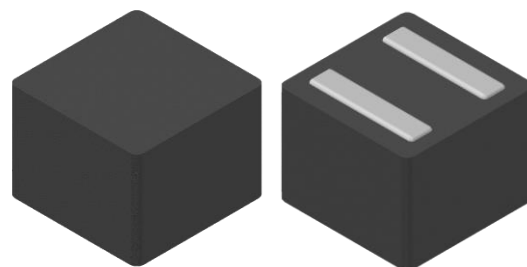


# CMI-CMMPF4030QL-SB SERIES

## 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.

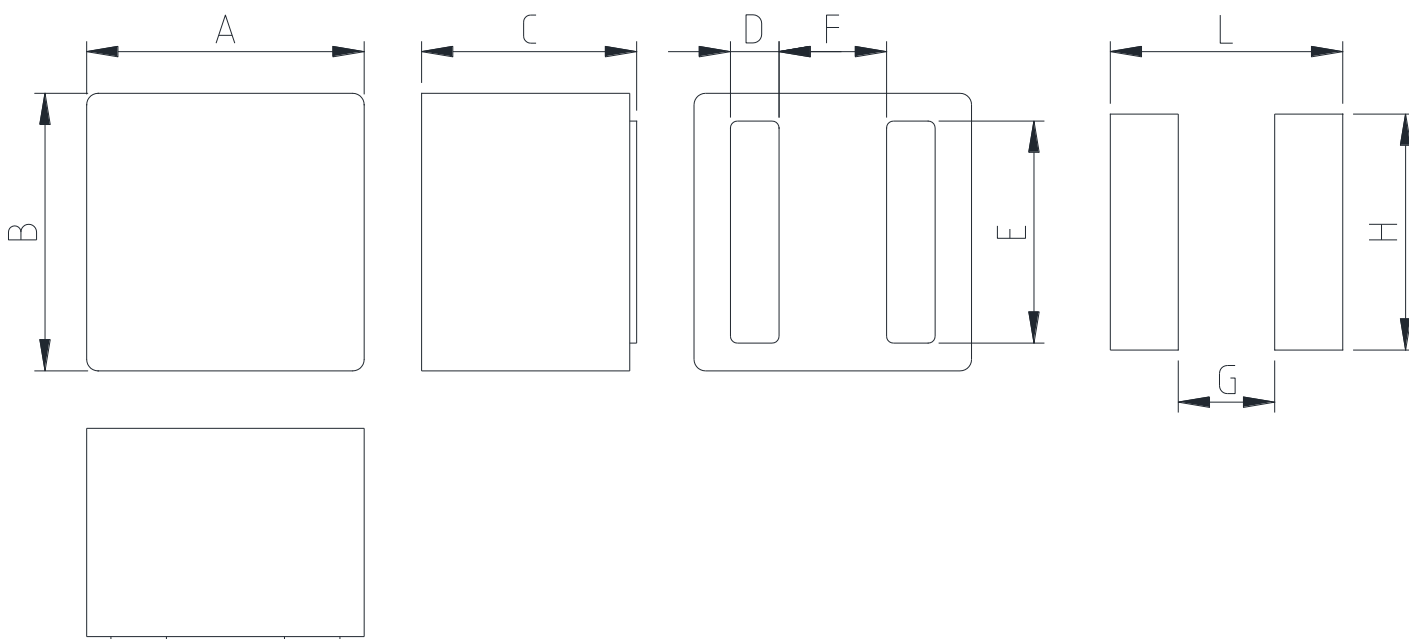


## Applications

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

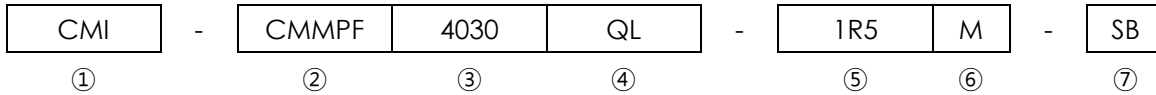
## Dimension (Unit:mm)

## Land Pattern (Unit:mm)



A	B	C	D	E	F	G	H	L
4.0 ±0.3	4.0 ±0.3	3.1 Max.	0.7 ±0.2	3.2 Typ.	1.55 Typ.	1.39	3.40	3.35

## Regulation of part number



- 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 (1.5uH)
- ⑥ Inductance tolerance ( $\pm 20\%$ )
- ⑦ Type (SB)

## Specifications

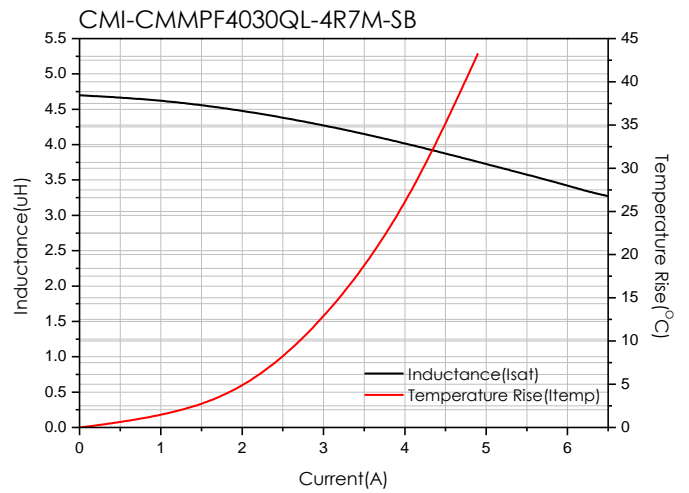
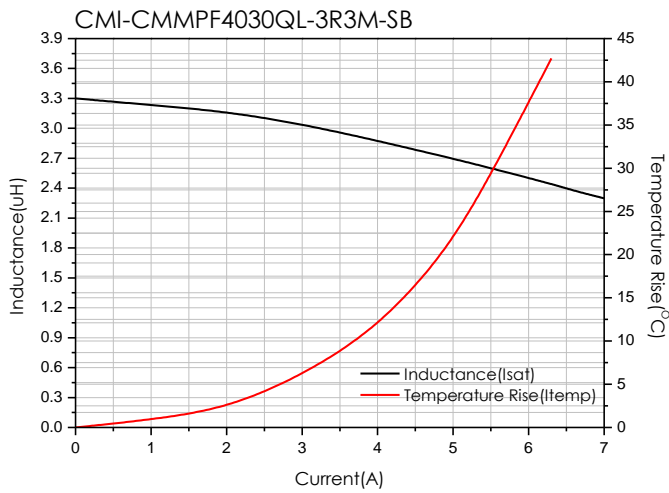
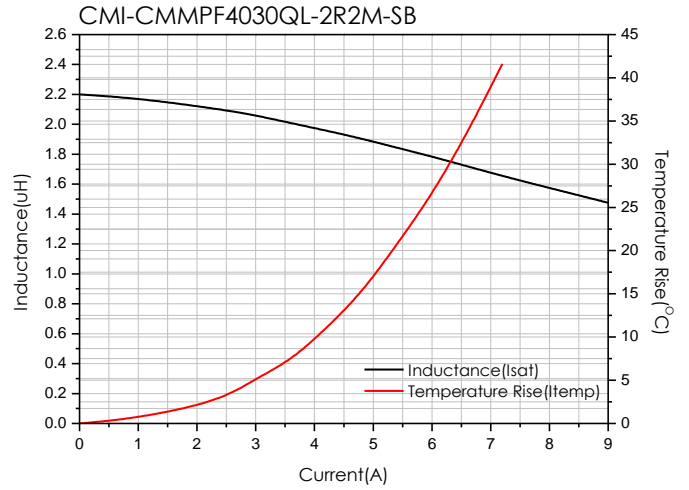
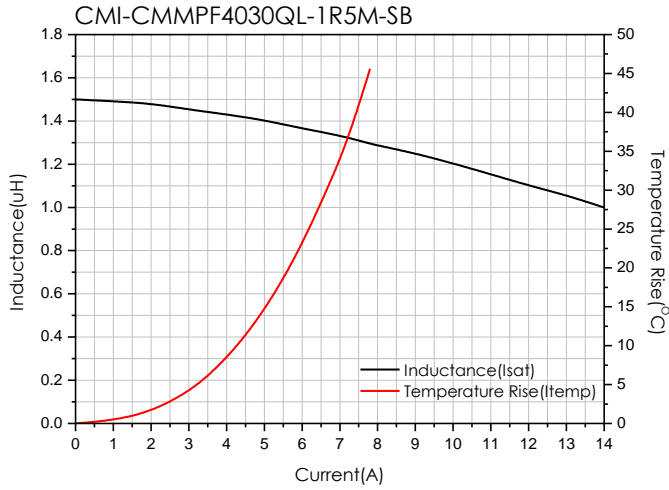
Part Number	Inductance (uH) $\pm 20\%$	DCR(mohm) Max.(Typ.)	Isat(A) Max.(Typ.)	Itemp(A) Max.(Typ.)	Test Frequency (Hz)
CMI-CMMPF4030QL-1R5M-SB	1.5	19.8(16.5)	10.5(11.5)	6.7(7.2)	1M
CMI-CMMPF4030QL-2R2M-SB	2.2	25.2(21)	6.5(7.2)	6.5(7.0)	1M
CMI-CMMPF4030QL-3R3M-SB	3.3	30(25)	6.0(6.5)	5.7(6.0)	1M
CMI-CMMPF4030QL-4R7M-SB	4.7	43.2(36)	5.3(5.8)	4.4(4.6)	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.

▪ **You can also contact us by e-mail : [coilmaster@coilmaster.com](mailto:coilmaster@coilmaster.com)**  
 ▪ All specifications are subject to change without notice.  
 ▪ Update date : 2024.04.15

## Electrical characteristics

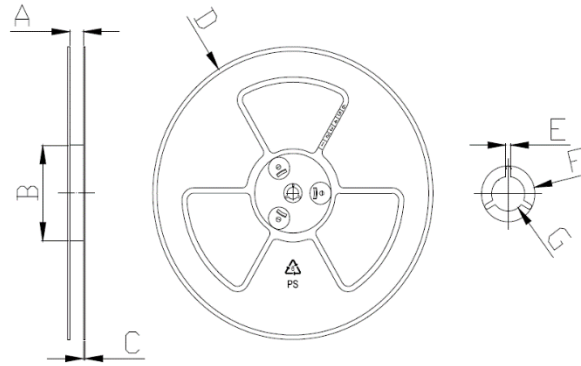


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## Packaging

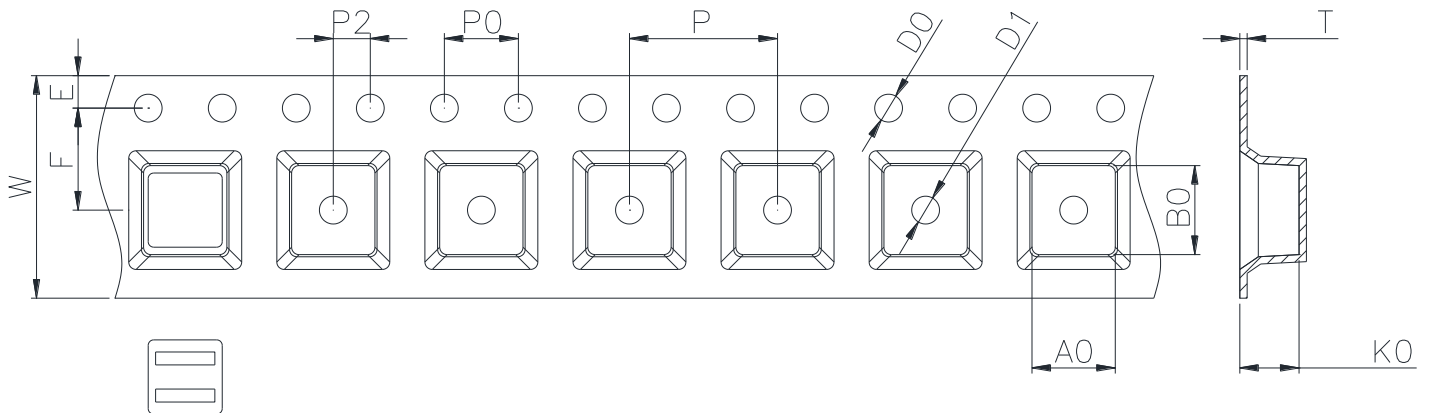
(1) Package quantity : 2,000 (pcs/reel)

(2) Reel Dimensions (unit:mm)



A	B	C	D	E	F	G
12.50	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
12.00	4.50	4.80	3.20	1.75	5.50	8.00	4.00	2.00	1.50	0.35
+0.30	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.10	+0.05
-0.10	-0.00	-0.00	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.00	-0.05

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