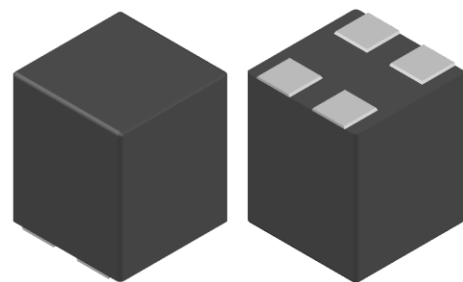


CMI-TMMPS505060BC-R068M

Features

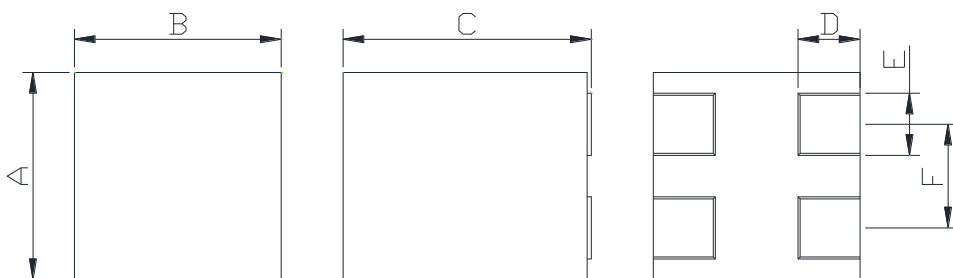
- ▶ The inductor in which copper and magnetic materials are co-fired.
- ▶ Space reduction is realized by 2 in 1 construction.
- ▶ High current, Low resistance.
- ▶ RoHS & Halogen-Free compliant.
- ▶ AEC-Q200 qualified.



Applications

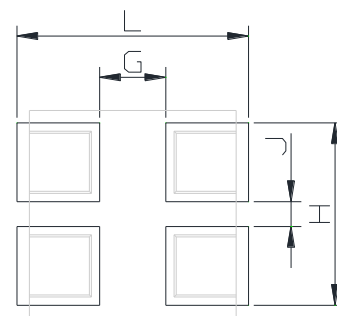
- ▶ Server, workstation and storage systems.
- ▶ Graphics cards and battery power systems.
- ▶ Multi-phase and Voltage Regulator Modules (VRMs).
- ▶ Point-of-Load modules.

Dimension (Unit:mm)



A	B	C	D	E	F
5.0 ±0.3	5.0 ±0.3	6.0 Max.	1.5 ±0.2	1.5 ±0.2	2.5 ±0.2

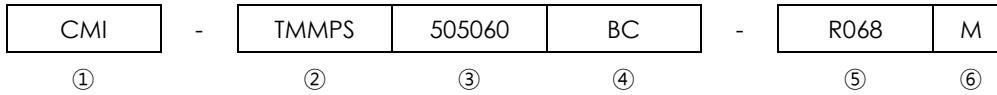
Land Pattern (Unit:mm)



G	H	J	L
1.6	4.4	0.6	5.6

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- Update date : 2025.08.06 (Rev.0.0)

Regulation of part number



- ① CoilMaster's initial
- ② Series Name : Two in one Metal Molded Power inductor (Sintered type)
- ③ Dimension (unit:mm)
- ④ Type
- ⑤ Typical inductance value (68 nH)
- ⑥ Inductance tolerance ($\pm 20\%$)

Specifications

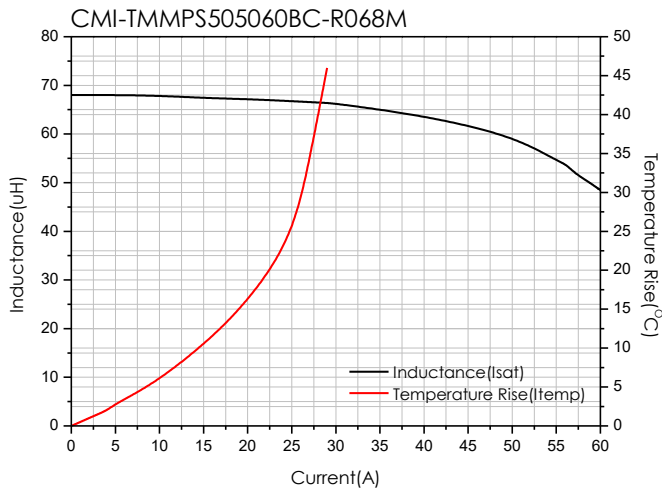
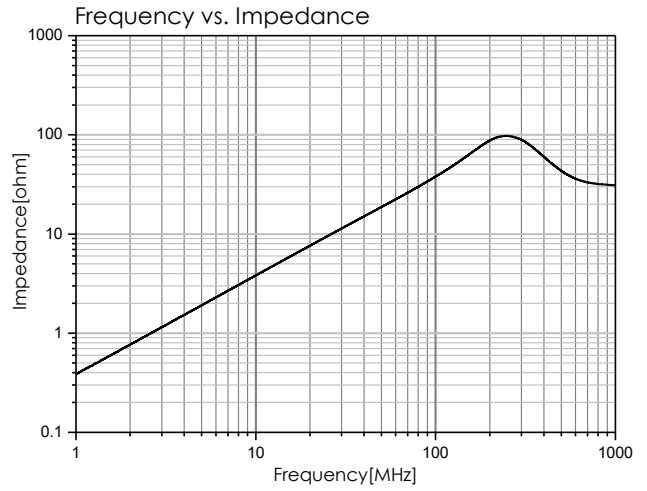
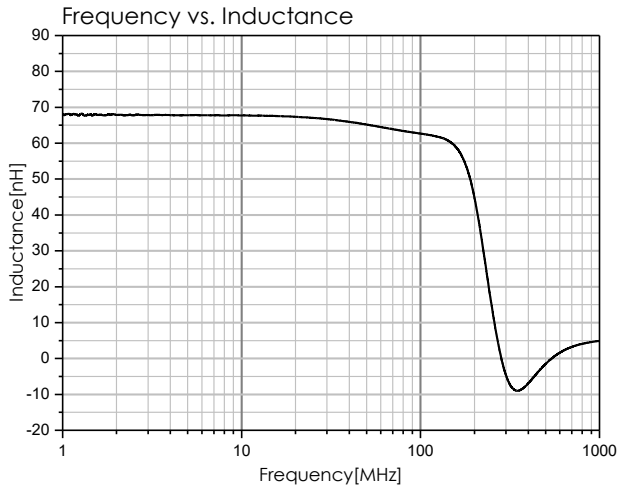
Part Number	Inductance (nH) $\pm 20\%$	DCR(mohm) Max.(Typ.)	Isat(A) Max.(Typ.)	Itemp(A) Max.(Typ.)	Test Frequency (Hz)
CMI-TMMPS505060BC-R068M	68	0.26(0.20)	55.0(60.0)	25.0(27.0)	1M

- 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 ~ +150 °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

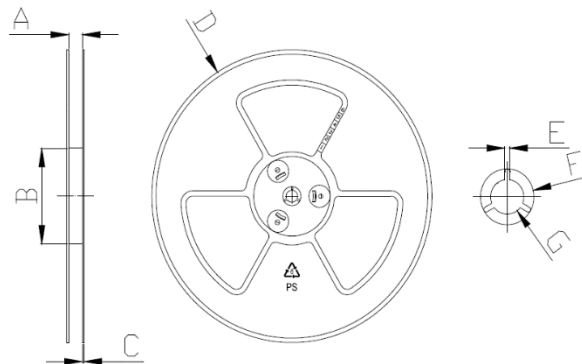


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Packaging

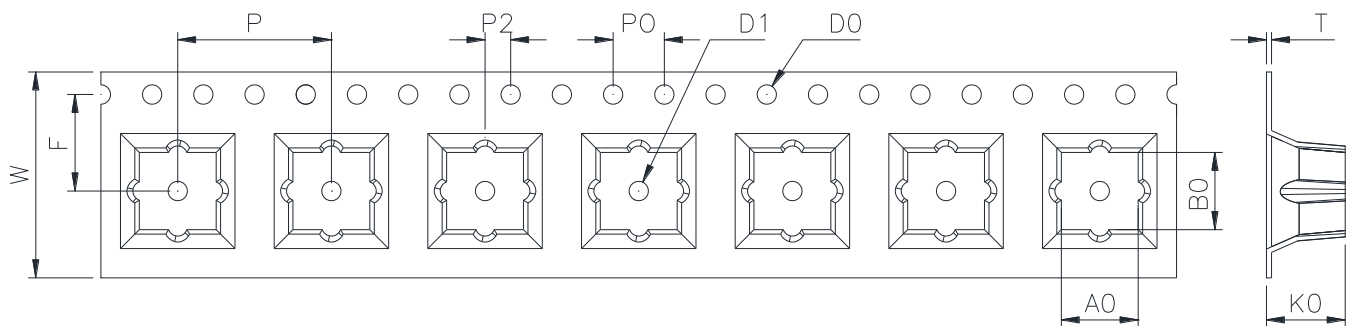
(1) Package quantity : 800 (pcs/reel)

(2) Reel Dimensions (unit:mm)



A	B	C	D	E	F	G
16.50	100.0	2.00	330.0	2.30	21.50	13.00
+0.50	+1.00	+0.10	+3.00	+0.30	+0.30	+0.50
-0.50	-1.00	-0.10	-3.00	-0.30	-0.30	-0.20

(3) Tape Dimensions



W	A0	B0	K0	E	F	P	P0	P2	D/D1	T
16.00	5.40	5.40	6.20	1.75	7.50	12.00	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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