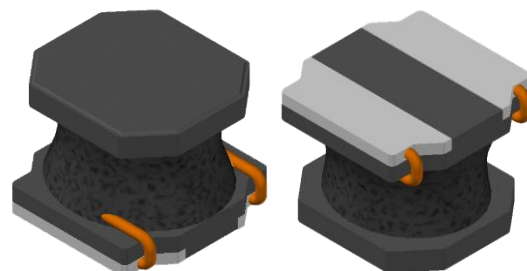


CMI-CDSS5045NH-SERIES

Features

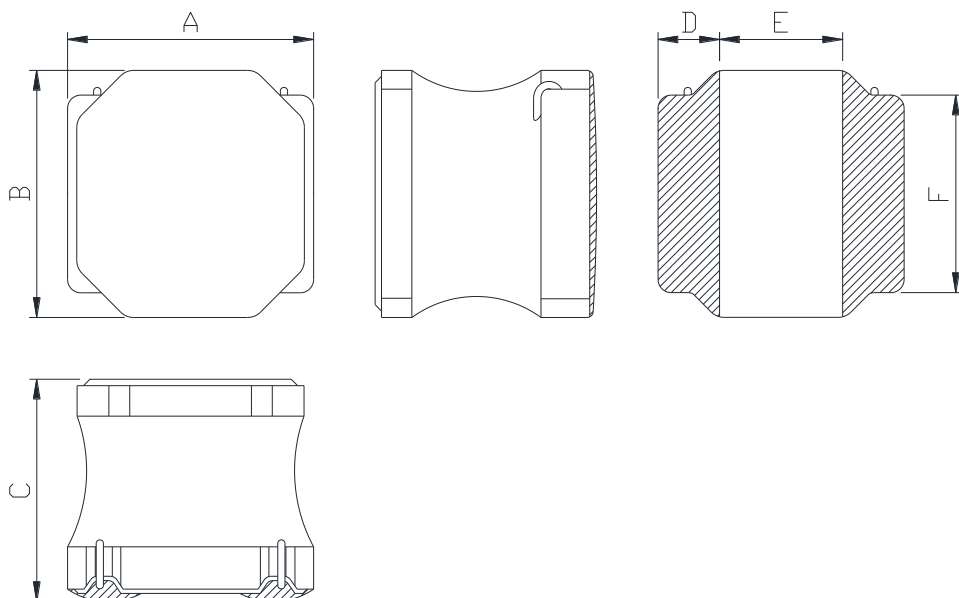
- ▶ It corresponds to High current.
- ▶ Simple and Semi-Shield structure.
- ▶ Takes up less PCB real estate and save more power.
- ▶ Available tape and reel for auto insertion.
- ▶ RoHs compliant / Halogen-Free.
- ▶ AEC-Q200 qualified.



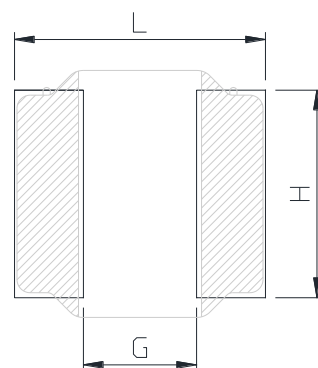
Applications

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

Dimension (Unit:mm)



Land Pattern (Unit:mm)



A	B	C	D	E	F
5.0 ±0.2	5.0 ±0.2	4.5 Max.	1.25 ±0.3	2.5 ±0.3	4.0 ±0.3

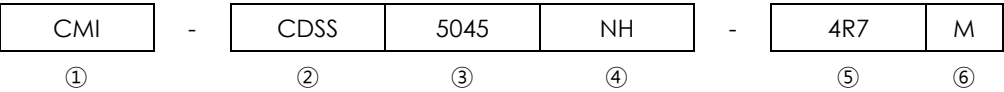
G	H	L
2.3	4.2	5.1

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- Update date : 2025.06.14 (Rev.0.0)

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Regulation of part number



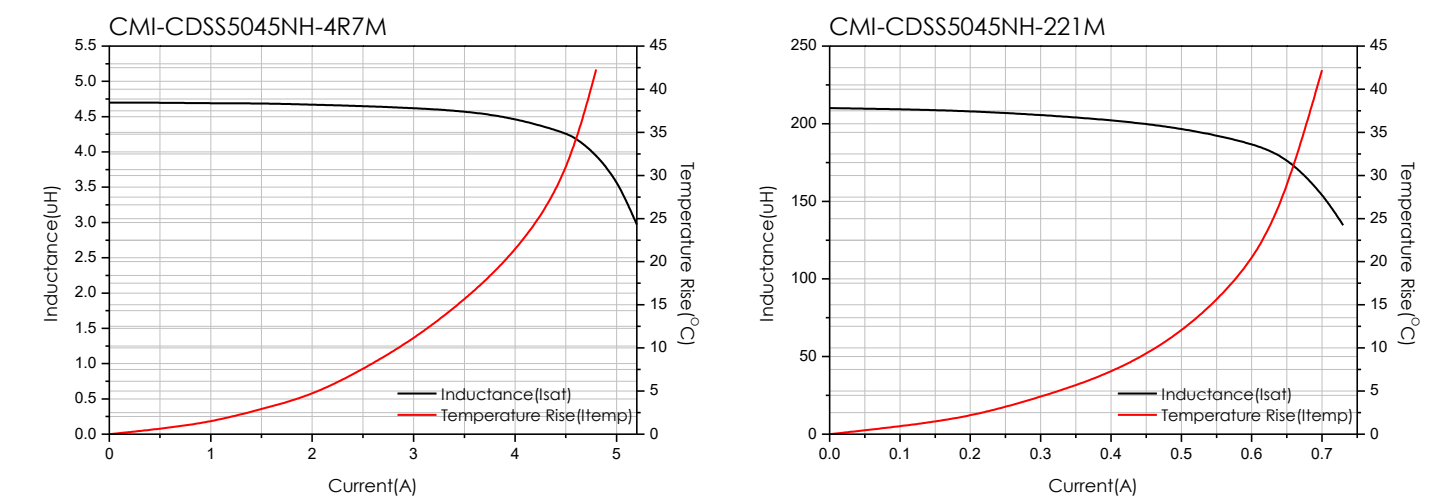
- ① CoilMaster's initial
- ② Series Name : Car Drum core Square shape Silver paste type Power Inductor
- ③ Core Size (unit:mm)
- ④ Type
- ⑤ Typical inductance value (4.7uH)
- ⑥ Inductance tolerance (±20%)

Specifications

Part Number	Inductance (μH)	Tolerance (±)	DCR(mΩ) ±30%	Isat(A) Max.(Typ.)	Itemp(A) Max.(Typ.)	Test Frequency (Hz)
CMI-CDSS5045NH-4R7M	4.7	20%	36	4.50(5.00)	4.00(4.50)	100k
CMI-CDSS5045NH-221M	220	20%	1050	0.65(0.70)	0.60(0.65)	100k

- 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℃ by self heating)
- Operating Temperature Range (including self temperature) : -40℃ ~ +125℃
- 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

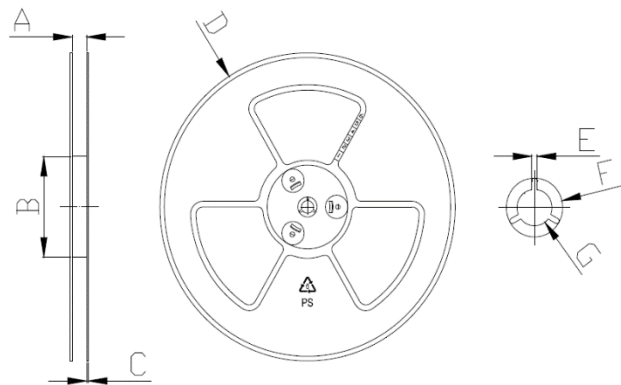
Electrical characteristics



Packaging

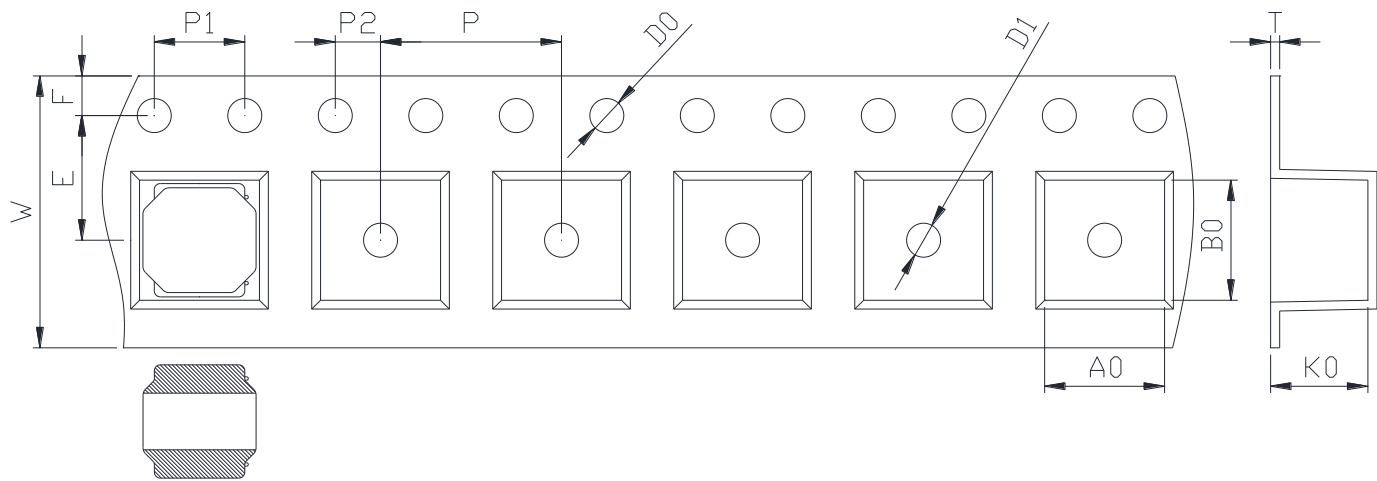
(1) Package quantity : 1,500 (pcs/reel)

(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	+0.10	+1.00	+0.30	+0.30	+0.50
-0.50	-1.00	-0.10	-1.00	-0.30	-0.30	-0.50

(3) Tape Dimensions



W	A0	B0	K0	E	F	P	P0	P2	D0/D1	T
12.00	5.30	5.30	4.70	1.75	5.50	8.00	4.00	2.00	1.50	0.40
+0.30	+0.10	+0.10	+0.15	+0.10	+0.15	+0.10	+0.10	+0.10	+0.10	+0.05
-0.30	-0.10	-0.10	-0.15	-0.10	-0.15	-0.10	-0.10	-0.10	-0.00	-0.05

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