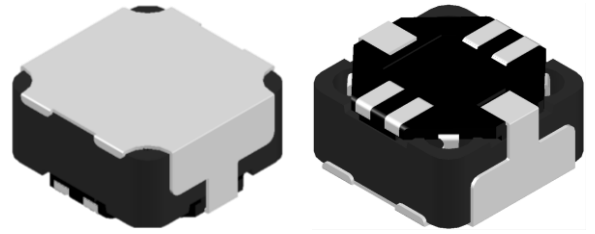


CMI-SSBD10050NF-SC SERIES

Features

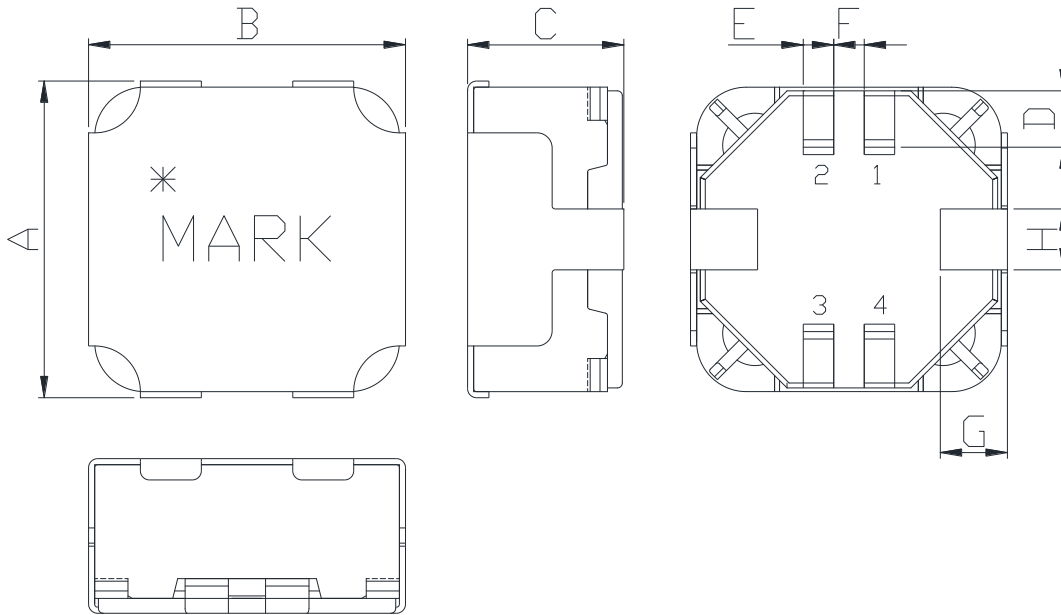
- ▶ High current and low profile
- ▶ Metal powder molding type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ RoHS compliant.
- ▶ AEC-Q200 qualified.



Applications

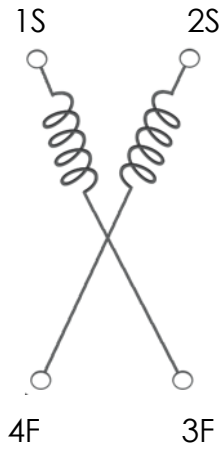
- ▶ SEPIC Circuit
- ▶ Equipment using for automobiles (ECM, airbags, headlights, Electronic Powder steering, motors, ABS, other)
- ▶ DC/DC Converters
- ▶ Common mode application

Dimension (Unit:mm)

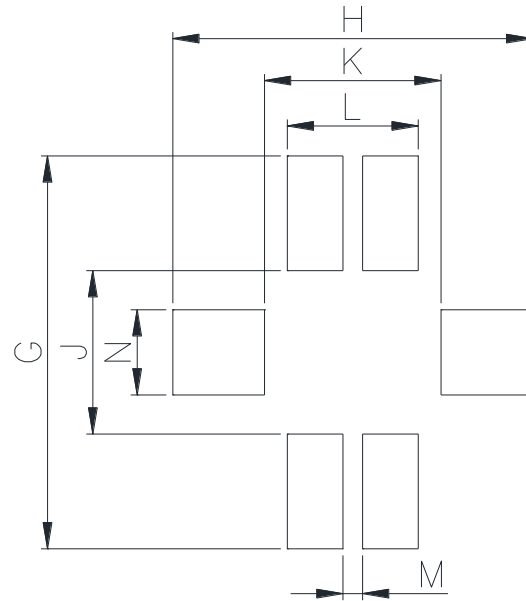


A	B	C	D	E	F	G	H
10.7 Max	10.7 Max	5.2 Max	1.85±0.25	1.0±0.25	1.0±0.25	2.0±0.2	2.0±0.2

Schematic Diagram

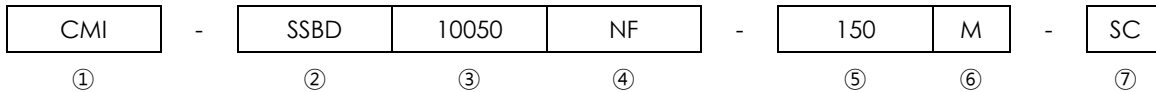


Recommended Pattern



G	H	J	K	L	M	N
12.0	11.0	5.0	5.4	4.0	0.6	2.6

Regulation of part number



- ① CoilMaster's initial
- ② Series Name : Shielded core Square shape Base type Dual Power inductor
- ③ Core Size (unit:mm)
- ④ Material
- ⑤ Typical inductance value (15.0 uH)
- ⑥ Inductance tolerance ($\pm 20\%$)
- ⑦ Revision (SC)

• You can also contact us by e-mail : coilmaster@coilmaster.com

• All specifications are subject to change without notice.

• Update date : 2022.11.09

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Specifications

Part Number	Inductance (μ H) $\pm 20\%$	DCR(mohm) Max.	IDC1(A) Max.	IDC2(A) Max.	Test Frequency (Hz)
CMI-SSBD10050NF-150M-SC	15.0	110	4.00	2.60	100k
CMI-SSBD10050NF-220M-SC	22.0	180	2.50	1.50	100k

- Winding to winding isolation : 200 Vrms

- IDC1: When based on the inductance change rate (approximately 30% below in the initial value)
- IDC2: 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

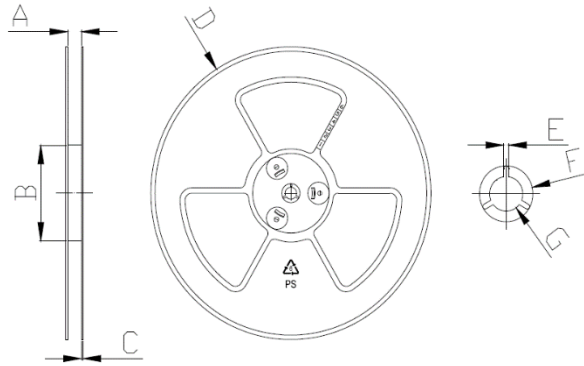
Note 1 : Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

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Packaging

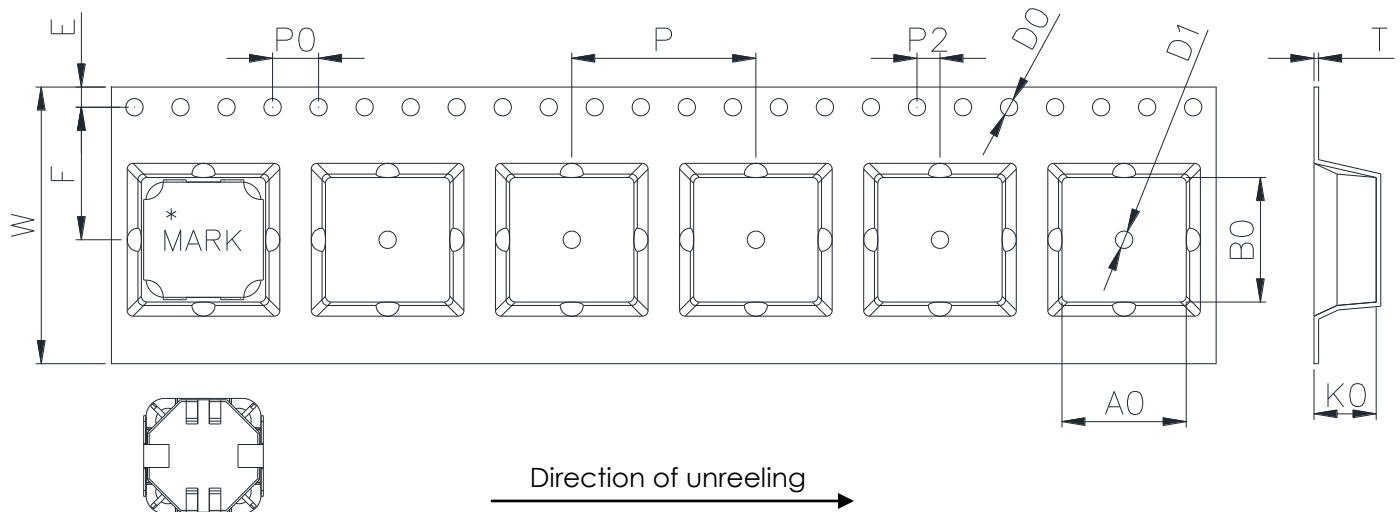
(1) Package quantity : 750 (pcs/reel)

(2) Reel Dimensions (unit:mm)



A	B	C	D	E	F	G
24.50	100.0	2.30	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	10.90	10.90	5.40	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
-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.10	-0.00	-0.05

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