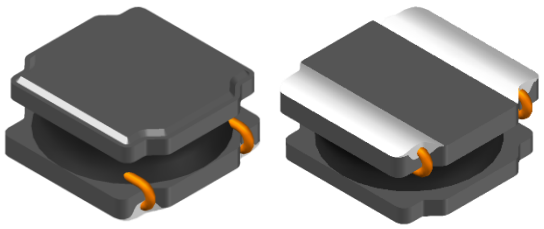
CMI-DSS4012NH-SERIES

Features

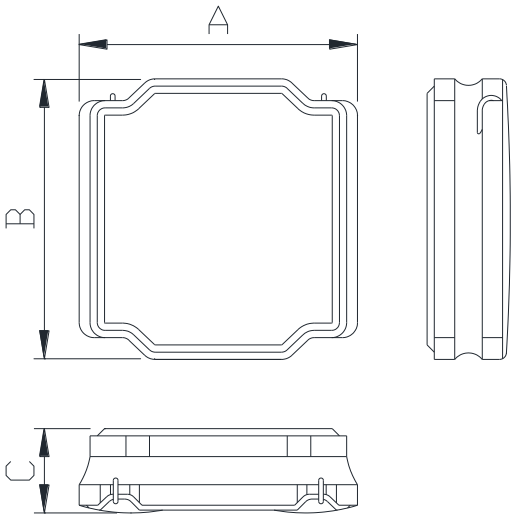


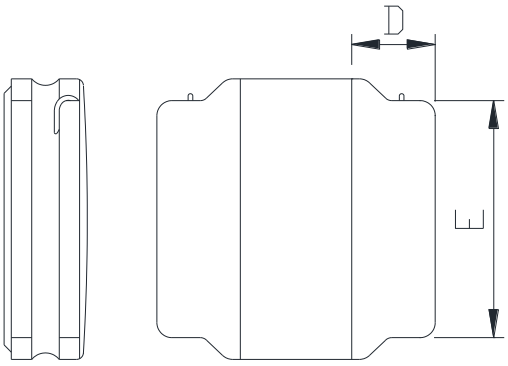
- ► Small and Low profile inductor.
- ► It corresponds to High current.
- ► Simple and Shield structure.
- ► Takes up less PCB real estate and save more power.
- ► Available tape and reel for auto insertion.
- ► RoHs compliant.
- ► Halogen-Free.

Applications

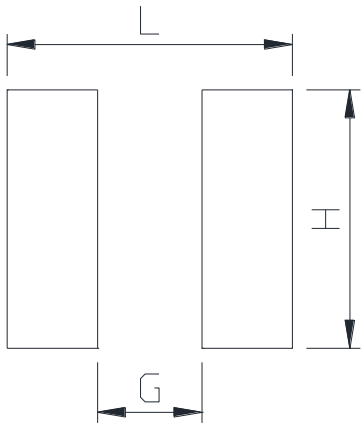
- ► For small DC/DC converter (cellular Phone, LCD/LED/OLED display etc).

Dimension (Unit:mm)





Land Pattern (Unit:mm)



A	B	C	D	E	G	H	L
4.0 ±0.2	4.0 ±0.2	1.2 Max.	1.0 ±0.3	3.3 ±0.3	1.5	3.7	4.1

Regulation of part number

CMI	-	DSS	4012	NH	-	R82	N
①		②	③	④		⑤	⑥

① CoilMaster's initial

② Series Name : Drum core Square shape Silver paste power inductor

③ Core Size (unit:mm)

④ Type

⑤ Typical inductance value (0.82uH)

⑥ Inductance tolerance (±30%)

Specifications

Part Number	Inductance (μH)	Tolerance (±)	DCR(mΩ) ±30%	Isat(A) Max.	Itemp(A) Max.	SRF(Min) (MHz)
CMI-DSS4012NH-R82N	0.82	30%	50	3.02	1.65	150
CMI-DSS4012NH-1R0N	1.0	30%	50	2.61	1.65	120
CMI-DSS4012NH-1R5N	1.5	30%	65	2.10	1.46	90
CMI-DSS4012NH-1R8N	1.8	30%	80	2.12	1.32	88
CMI-DSS4012NH-2R2N	2.2	30%	80	1.76	1.32	74
CMI-DSS4012NH-3R3N	3.3	30%	110	1.72	1.12	60
CMI-DSS4012NH-4R7N	4.7.	30%	125	1.15	1.05	50
CMI-DSS4012NH-6R8M	6.8	20%	198	0.85	0.84	40
CMI-DSS4012NH-100M	10	20%	265	0.80	0.77	33
CMI-DSS4012NH-120M	12	20%	290	0.66	0.70	32
CMI-DSS4012NH-150M	15	20%	340	0.56	0.64	25
CMI-DSS4012NH-220M	22	20%	587	0.46	0.49	20
CMI-DSS4012NH-330M	33	20%	810	0.42	0.42	17
CMI-DSS4012NH-470M	47	20%	1100	0.35	0.37	12
CMI-DSS4012NH-680M	68	20%	1950	0.28	0.27	11
CMI-DSS4012NH-820M	82	20%	2140	0.28	0.26	11
CMI-DSS4012NH-101M	100	20%	2210	0.25	0.25	9.4

- Inductance Tested at 100kHz, 1Vrms (20˚c)
- 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 ~ +125 ˚c

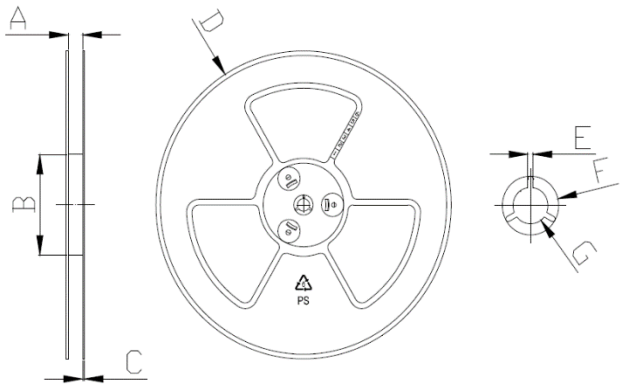
Note 1 : Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

- **You can also contact us by e-mail : coilmaster@coilmaster.com**
- All specifications are subject to change without notice
- Update date : 2022.05.12

Packaging

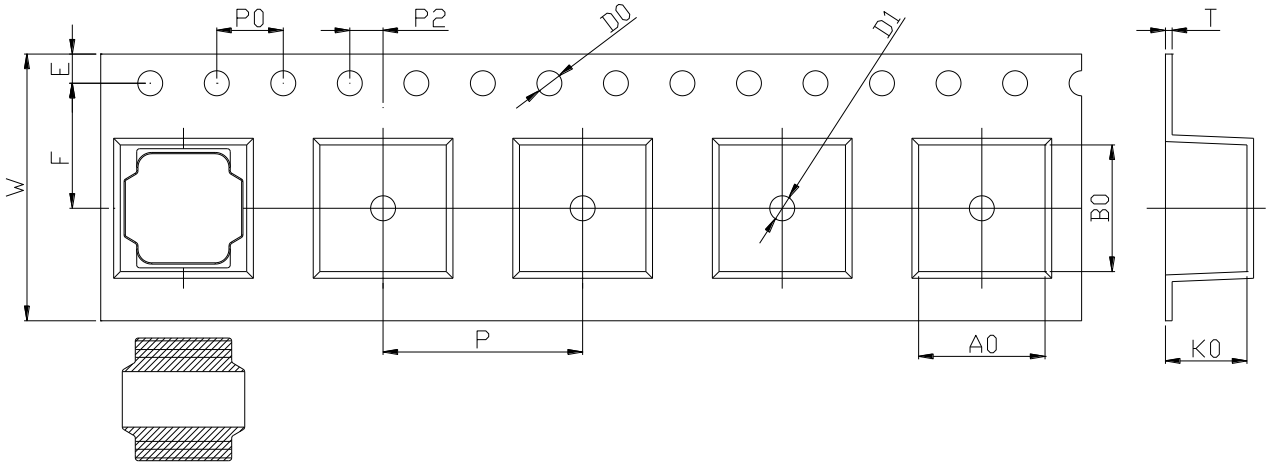
(1) Package quantity : 4,500 (pcs/reel)

(2) Reel Dimensions (unit:mm)



A	B	C	D	E	F	G
12.50 +0.50 -0.50	100.0 +1.00 -1.00	2.30 +0.20 -0.20	330.0 +1.00 -1.00	2.30 +0.30 -0.30	21.00 +0.40 -0.40	13.00 +0.20 -0.20

(3) Tape Dimensions



W	A0	B0	K0	E	F	P	P0	P2	D0	T
12.00 +0.30 -0.30	4.30 +0.10 -0.10	4.30 +0.10 -0.10	1.55 +0.10 -0.10	1.75 +0.10 -0.10	5.50 +0.10 -0.10	8.00 +0.10 -0.10	4.00 +0.10 -0.10	2.00 +0.10 -0.10	1.50 +0.10 -0.10	0.30 +0.05 -0.05

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