

CMI-DSS3012NH-SERIES



Features

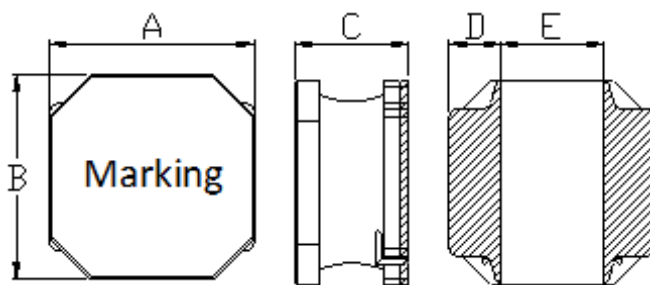
- ▶ Small and Low profile inductor
- ▶ It corresponds to High current.
- ▶ Simple and Shield structure.
- ▶ Takes up less PCB real estate and save more power
- ▶ Available tape and reel for auto insertion.
- ▶ RoHs compliant
- ▶ Halogen-Free



Applications

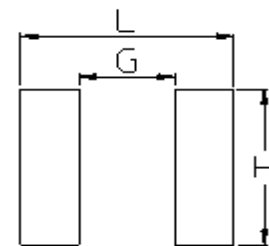
- ▶ For small DC/DC converter (cellular Phone, LCD/LED/OLED display etc).

Dimension (Unit:mm)



A	B	C	D	E
3.0±0.2	3.0±0.2	1.2 Max.	0.75±0.2	1.5±0.2

Land Pattern (Unit:mm)



L	G	H
3.1	1.5	2.7

Specifications

Part Number	Inductance (μH)	Tolerance (±)	DCR (mΩ) ±30%	I _{sat} (A) Max.	I _{temp} (A) Max.	SRF (Min) (MHz)
CMI-DSS3012NH-R82N	0.82	30%	30	2.05	2.47	180
CMI-DSS3012NH-1R0N	1.0	30%	40	1.87	2.20	120
CMI-DSS3012NH-1R2N	1.2	30%	45	1.70	2.01	120
CMI-DSS3012NH-1R5N	1.5	30%	45	1.62	2.01	110
CMI-DSS3012NH-1R8N	1.8	30%	63	1.30	1.65	90
CMI-DSS3012NH-2R2N	2.2	30%	75	1.20	1.55	84
CMI-DSS3012NH-3R3M	3.3	20%	100	1.05	1.36	64
CMI-DSS3012NH-3R9M	3.9	20%	145	1.00	1.24	61
CMI-DSS3012NH-4R7M	4.7	20%	145	0.90	1.24	61
CMI-DSS3012NH-6R8M	6.8	20%	190	0.75	0.98	61
CMI-DSS3012NH-100M	10	20%	265	0.60	0.83	42
CMI-DSS3012NH-120M	12	20%	345	0.48	0.73	32
CMI-DSS3012NH-150M	15	20%	360	0.45	0.71	27

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

- All specifications are subject to change without notice
- Update date : 2017.01.09

Part Number	Inductance (μH)	Tolerance (±)	DCR (mΩ) ±30%	Isat (A) Max.	Itemp (A) Max.	SRF (Min) (Hz)
CMI-DSS3012NH-180M	18	20%	545	0.43	0.58	25
CMI-DSS3012NH-220M	22	20%	645	0.42	0.53	23
CMI-DSS3012NH-270M	27	20%	870	0.35	0.47	21
CMI-DSS3012NH-330M	33	20%	875	0.36	0.46	18
CMI-DSS3012NH-390M	39	20%	875	0.33	0.46	18
CMI-DSS3012NH-470M	47	20%	1450	0.27	0.35	14
CMI-DSS3012NH-680M	68	20%	1670	0.24	0.33	12

- 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) : -25°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

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