

CMI-DSS5020NH-SERIES



Features

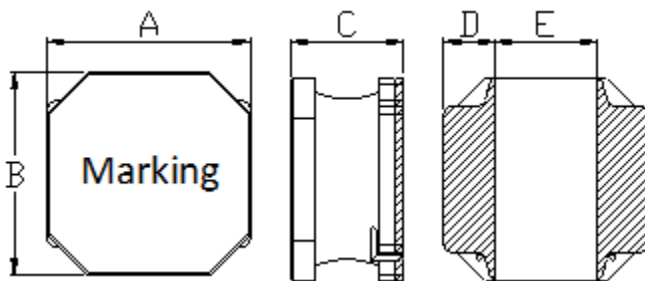
- ▶ Small and Low profile inductor
- ▶ It corresponds to High current.
- ▶ Simple and Shield structure.
- ▶ Takes up less PCB real estate and save more power
- ▶ Available tape and reel for auto insertion.
- ▶ RoHs compliant
- ▶ Halogen-Free



Applications

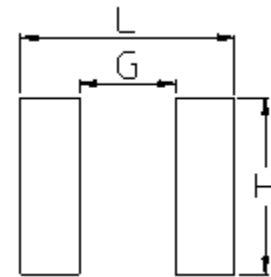
- ▶ For small DC/DC converter (cellular Phone, LCD/LED/OLED display etc).

Dimension (Unit:mm)



A	B	C	D	E
5.0±0.2	5.0±0.2	2.1 Max.	1.5±0.2	2.0±0.2

Land Pattern (Unit:mm)



L	G	H
5.1	2.3	4.2

Specifications

Part Number	Inductance (μH)	Tolerance (±)	DCR (mΩ) ±30%	I _{sat} (A) Max.	I _{temp} (A) Max.	SRF (Min) (MHz)
CMI-DSS5020NH-1R0N	1.0	30%	20	4.10	3.80	114
CMI-DSS5020NH-1R5N	1.5	30%	30	4.10	3.20	68
CMI-DSS5020NH-2R2N	2.2	30%	40	3.20	2.70	57
CMI-DSS5020NH-3R3N	3.3	30%	50	2.55	2.30	46
CMI-DSS5020NH-4R7M	4.7	20%	57	2.50	2.20	37
CMI-DSS5020NH-6R8M	6.8	20%	83	2.05	1.80	30
CMI-DSS5020NH-8R2M	8.2	20%	98	1.85	1.65	26
CMI-DSS5020NH-100M	10	20%	120	1.70	1.55	24
CMI-DSS5020NH-120M	12	20%	140	1.50	1.40	22
CMI-DSS5020NH-150M	15	20%	165	1.35	1.25	20
CMI-DSS5020NH-180M	18	20%	200	1.25	1.15	16
CMI-DSS5020NH-220M	22	20%	250	1.15	1.10	14

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

- All specifications are subject to change without notice
- Update date : 2017.01.10

Part Number	Inductance (μH)	Tolerance (±)	DCR (mΩ) ±30%	Isat (A) Max.	Itemp (A) Max.	SRF (Min) (MHz)
CMI-DSS5020NH-330M	33	20%	400	0.92	0.90	10
CMI-DSS5020NH-470M	47	20%	580	0.77	0.75	7
CMI-DSS5020NH-680M	68	20%	740	0.65	0.64	6
CMI-DSS5020NH-101M	100	20%	1100	0.53	0.40	6

- 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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