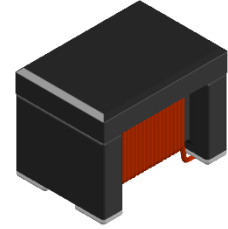




CMI-CPOC3225V-220M

Features

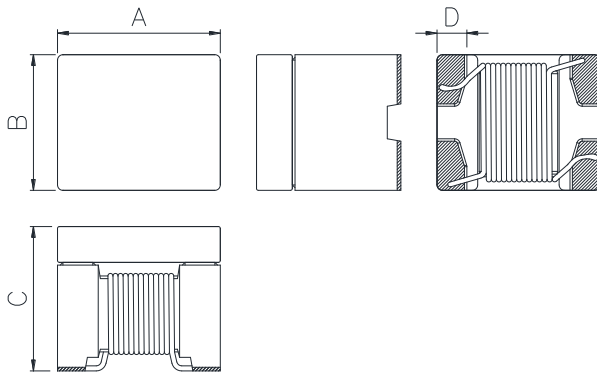
- ▶ SMD Inductor.
- ▶ Automotive Broadband Inductor.
- ▶ Simple and Shield structure.
- ▶ Solder free design.
- ▶ RoHS compliant. / AEC-Q200 qualified.



Applications

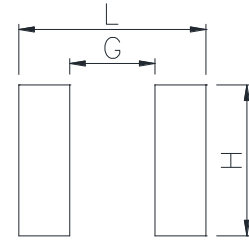
- ▶ Inductor for use with separate signal and power lines in in-vehicle Power over Coax.

Dimension (Unit:mm)



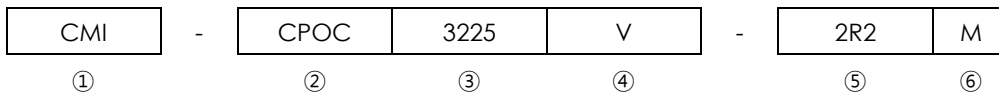
A	B	C	D
3.2±0.2	2.5±0.2	3.0 Max.	0.58±0.1

Land Pattern (Unit:mm)



L	G	H
3.6	1.64	2.9

Regulation of part number



- ① CoilMaster's initial
- ② Series Name : Car Power over Coax Inductor
- ③ Core Size (unit:mm)
- ④ Type
- ⑤ Typical inductance value (2.2 uH)
- ⑥ Inductance tolerance (±20%)

• You can also contact us by e-mail : coilmaster@coilmaster.com
 • All specifications are subject to change without notice.
 • Update date : 2022.11.16

Specifications

Part Number	L (μ H) $\pm 20\%$	Z (ohm) Typ.	DCR (ohm) Max.(Typ.)	Isat(A)			I _{rms} (A) Typ.			SRF (MHz) Typ.
				25 °C	85 °C	125 °C	25 °C	85 °C	125 °C	
CMI-CPOC3225V -2R2M	2.2	900	0.13(0.10)	2.20	1.90	1.50	1.90	1.73	1.00	300
CMI-CPOC3225V -4R7M	4.7	3400	0.19(0.16)	1.60	1.30	0.95	1.50	1.35	0.85	160
CMI-CPOC3225V -6R8M	6.8	6500	0.24(0.20)	1.40	1.00	0.80	1.36	1.23	0.80	120
CMI-CPOC3225V -100M	10	4000	0.34(0.29)	1.10	0.85	0.66	1.13	1.02	0.57	95
CMI-CPOC3225V -150M	15	7000	0.51(0.43)	0.91	0.74	0.58	0.90	0.84	0.50	81
CMI-CPOC3225V -180M	18	7500	0.84(0.74)	0.81	0.66	0.51	0.85	0.80	0.45	79
CMI-CPOC3225V -220M	22	12500	0.85(0.76)	0.72	0.58	0.45	0.70	0.63	0.40	70

- Inductance tested at 100 kHz, 0.1 V_{rms}, 200 mA DC using
- Impedance tested at 100 MHz (2.2 μ H, 4.7 μ H, 6.8 μ H)
at 50 MHz (10 μ H, 15 μ H, 18 μ H, 22 μ H)
- Isat(A) : DC current that causes 30% inductance drop from its initial value at 200 mA at specified temperature.
- I_{rms}(A) : Current that causes a 40 °C rise at 25 °C
Current that causes a 40 °C rise at 85 °C
Current that causes a 15 °C rise at 125 °C
- 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.

Ilisan Sales Office (KOREA) +82)31-904-1444
China Sales Office (CHINA) +86)758-278-7031
Hungary Sales office (EUROPE) +36)30-913-7706

H.K Sales Office (HONGKONG) +852)2711-5551
LA Sales Office (USA) +1)866-446-3586

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

- All specifications are subject to change without notice.
- Update date : 2022.11.16

www.coilmaster.com