



CSMS0540D Series SMD WIRE WOUND POWER INDUCTORS (SHIELDED)

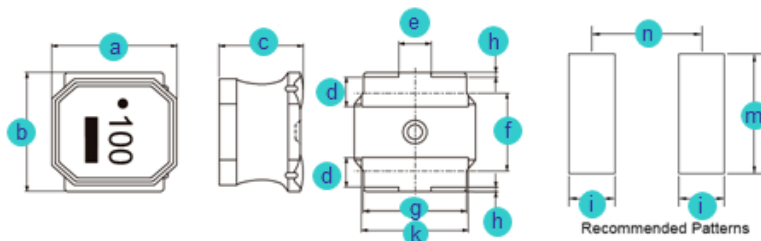
Rev. A

A. Electrical Specifications:

P/N	Marking	Inductance @100KHz (μH)	Inductance Tolerance	DCR ±30% (Ω)	Rated Current (mA)		SRF Min. (MHz)
					I sat	I rms	
CSMS0540D-1R5N	1R5	1.5	± 30%	0.017	6400	4500	60
CSMS0540D-2R2N	2R2	2.2	± 30%	0.022	5000	3700	42
CSMS0540D-3R3N	3R3	3.3	± 30%	0.027	4000	3300	32
CSMS0540D-4R7N	4R7	4.7	± 30%	0.029	3300	3100	28
CSMS0540D-6R8M	6R8	6.8	± 20%	0.049	2800	2400	21
CSMS0540D-100M	100	10	± 20%	0.056	2300	2100	18
CSMS0540D-150M	150	15	± 20%	0.080	2000	1800	13
CSMS0540D-220M	220	22	± 20%	0.126	1500	1400	9
CSMS0540D-330M	330	33	± 20%	0.180	1300	1200	7
CSMS0540D-470M	470	47	± 20%	0.310	1100	900	6

B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g	h	i	k	m	n
CSMS0540D	4.9 (0.193)	4.9 (0.193)	4.1(0.161)1R5N~100M 4.0(0.157)150M~470M	1.2 (0.047)	1.3 (0.051)	3.3 (0.130)	3.8 (0.150)	0.2 (0.008)	1.5 (0.059)	4.2 (0.165)	4.0 (0.157)	3.6 (0.142)
Tol.	±0.2 (0.008)	±0.2 (0.008)	Max.	±0.2 (0.008)	Typ.	±0.2 (0.008)	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.



C. General Information:

- CSMS0540D-xxx_, "CSMS0540D" = P/N, "xxx" = Inductance, "_" = Tolerance.
- Tolerance "_": M: ± 20%, N: ± 30%
- Magnetically shielded
- High saturation current
- Storage temperature: -40°C to +85°C.
- Operating temperature range: -25°C to +125°C (Including self-heating).
- Inductance measured using the HP4285A and Chroma1320 & 3302.
- DCR measured using Chroma 16502.
- SRF measured using the HP4291B.
- Saturation Current Idc1: The value of current causes a 30% Inductance reduction from initial value. (at : 20 °C ambient)
- Temperature rise current Idc2: The value of current causes a 40°C temperature rise. (at : 20 °C ambient)
- Rated Current: Either Idc1 or Idc2 whichever is smaller.
- MSL: Level 1.
- Inductance and Current range: From 1.5 μH (4500mA) to 47.0 μH (900mA).

D. Applications:

- Game Consoles
- Set Top Boxes
- Cables Modems
- Computers
- Mobile Communication Devices (Cell Phones, Radios, etc.)
- PDA, LCD, DVD, BRP, HD.

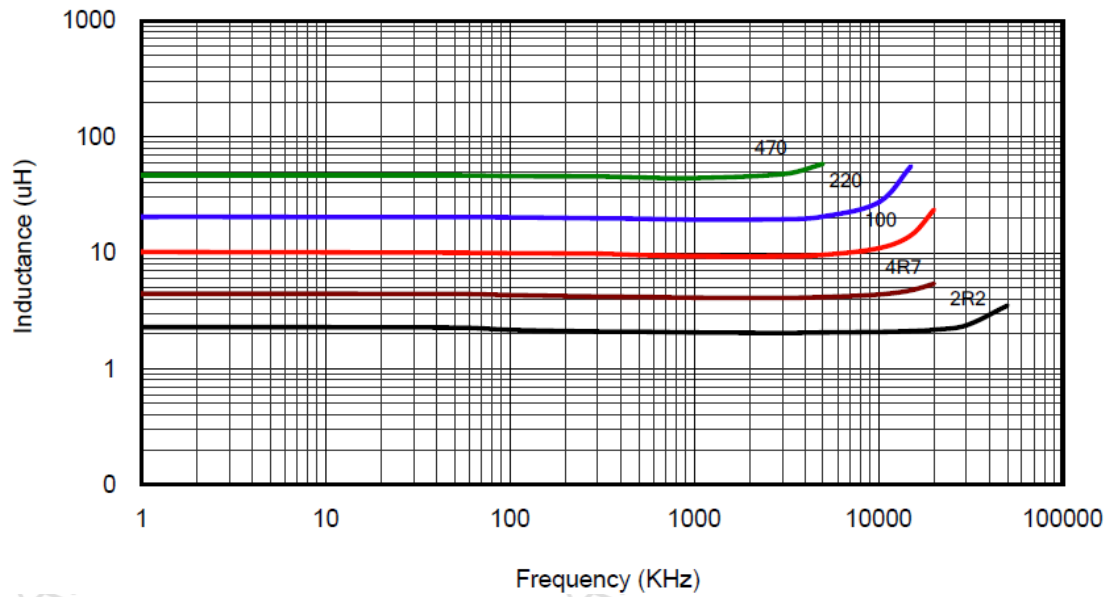


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E. Characteristics Curve:

Inductance vs. Frequency



Inductance vs. DC Current

