

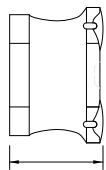
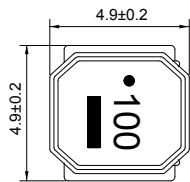
CSMS0540D Series (SHIELDED)

■ SMD Wire Wound Power Inductors

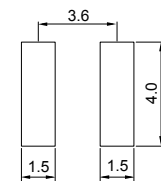
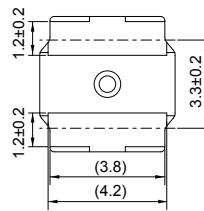
MECHANICAL DIMENSIONS



CSMS0540D



1R5N~100M 4.1 Max.
150M~470M 4.0 Max.



Recommended Patterns

unit: mm

ELECTRICAL SPECIFICATION

Part Number	Marking	Inductance @100KHz (μ H)	Inductance Tolerance	DCR $\pm 30\%$ (Ω)	Rated Current (mA)		SRF (MHz) Min.
					Saturation Current Idc1	Temperature Rise Current Idc2	
CSMS0540D-1R5N-LRH	1R5	1.5	$\pm 30\%$	0.017	6400	4500	60
CSMS0540D-2R2N-LRH	2R2	2.2	$\pm 30\%$	0.022	5000	3700	42
CSMS0540D-3R3N-LRH	3R3	3.3	$\pm 30\%$	0.027	4000	3300	32
CSMS0540D-4R7N-LRH	4R7	4.7	$\pm 30\%$	0.029	3300	3100	28
CSMS0540D-6R8M-LRH	6R8	6.8	$\pm 20\%$	0.049	2800	2400	21
CSMS0540D-100M-LRH	100	10	$\pm 20\%$	0.056	2300	2100	18
CSMS0540D-150M-LRH	150	15	$\pm 20\%$	0.080	2000	1800	13
CSMS0540D-220M-LRH	220	22	$\pm 20\%$	0.126	1500	1400	9
CSMS0540D-330M-LRH	330	33	$\pm 20\%$	0.180	1300	1200	7
CSMS0540D-470M-LRH	470	47	$\pm 20\%$	0.310	1100	900	6

- Operating temperature Range: -25°C to $+125^{\circ}\text{C}$ (Including self-temperature rise)
- Storage Temp. Range: -40°C to $+85^{\circ}\text{C}$
- Inductance measured using the HP4285A and Chroma1320 & 3302
- DCR measured using Chroma16502
- SRF measured using the HP4291B
- Saturation Current Idc1: The value of current causes a 30% inductance reduction from initial value. (at Ta: 20°C)
- Temperature rise current Idc2: The value of current causes a 40°C temperature rise. (at Ta: 20°C)
- Rated Current: Either Idc1 or Idc2 whichever is smaller
- MSL: Level 1

CHARACTERISTIC CURVE

CSMS0540D Series

