



CSMS0410D Series SMD WIRE WOUND POWER INDUCTORS (SHIELDED)

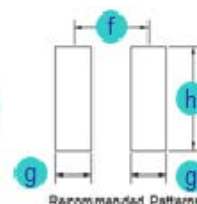
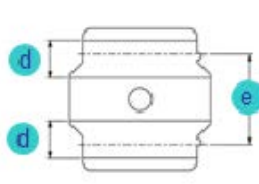
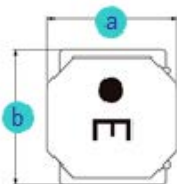
Rev. A

A. Electrical Specifications:

P/N	Marking	Inductance @100KHz (μH)	Inductance Tolerance	DCR ±20%(Ω)	Rated Current (mA)		SRF Min. (MHz)
					I sat	I rms	
CSMS0410D-1R0N	A	1.0	± 30%	0.056	2000	1900	116
CSMS0410D-2R2M	C	2.2	± 20%	0.085	1200	1500	73
CSMS0410D-3R3M	E	3.3	± 20%	0.100	1100	1400	58
CSMS0410D-4R7M	H	4.7	± 20%	0.140	950	1200	47
CSMS0410D-6R8M	I	6.8	± 20%	0.200	800	1000	38
CSMS0410D-100M	K	10	± 20%	0.300	620	750	31
CSMS0410D-150M	M	15	± 20%	0.430	540	600	24
CSMS0410D-220M	N	22	± 20%	0.570	450	500	19

B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g	h
CSMS0410D	4.0 (0.157)	4.0 (0.157)	1.0 (0.039)	1.1 (0.043)	2.5 (0.098)	2.8 (0.110)	1.2 (0.047)	3.7 (0.146)
Tol.	±0.2 (0.008)	±0.2 (0.008)	Max.	±0.2 (0.008)	±0.2 (0.008)	Typ.	Typ.	Typ.



C. General Information:

1. CSMS0410D-xxx_, "CSMS0410D" = P/N, "xxx" = Inductance, "_" = Tolerance.
2. Tolerance "_": M: ± 20%, N: ± 30%
3. Magnetically shielded
4. High saturation current
5. Storage temperature: -40°C to +85°C.
6. Operating temperature range: -25°C to +125°C (Including self-heating).
7. Inductance measured using the HP4285A and Chroma1320 & 3302.
8. DCR measured using Chroma 16502.
9. SRF measured using the HP4291B.
10. Saturation Current Idc1: The value of current causes a 30% Inductance reduction from initial value. (at : 20 °C ambient)
11. Temperature rise current Idc2: The value of current causes a 40°C temperature rise. (at : 20 °C ambient)
12. Rated Current: Either Idc1 or Idc2 whichever is smaller.
13. MSL: Level 1.
14. Inductance and Current range: From 1.0 μH (1900mA) to 22.0 μH (500mA).

D. Applications:

1. Game Consoles
2. Set Top Boxes
3. Cables Modems
4. Computers
5. Mobile Communication Devices (Cell Phones, Radios, etc.)
6. PDA, LCD, DVD, BRP, HD.



CSMS0410D Series SMD WIRE WOUND POWER INDUCTORS (SHIELDED)

Rev. A

E. Characteristics Curve:

