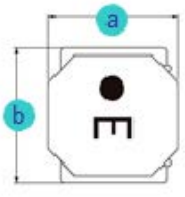
CSMS0410D Series
SMD WIRE WOUND POWER INDUCTORS (SHIELDED)
Rev. A

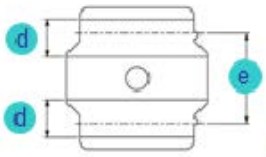
A. Electrical Specifications:

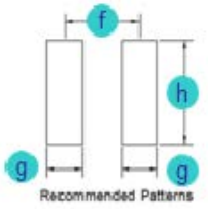
P/N	Marking	Inductance @100KHz (µH)	Inductance Tolerance	DCR ±20%(Ω)	Rated Current (mA)		SRF Min. (MHz)
					I sat	I rms	
CSMS0410D-1R0N	A	1.0	± 30%	0.056	2000	1900	116
CSMS0410D-2R2M	C	2.2	± 20%	0.085	1200	1500	73
CSMS0410D-3R3M	E	3.3	± 20%	0.100	1100	1400	58
CSMS0410D-4R7M	H	4.7	± 20%	0.140	950	1200	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: -40ºC to +85ºC.
6. Operating temperature range: -25ºC to +125ºC (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 ºC ambient)
11. Temperature rise current Idc2: The value of current causes a 40ºC temperature rise. (at : 20 ºC 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.

E. Characteristics Curve: