CSMS0628D Series
SMD WIRE WOUND POWER INDUCTORS (SHIELDED)
Rev. A

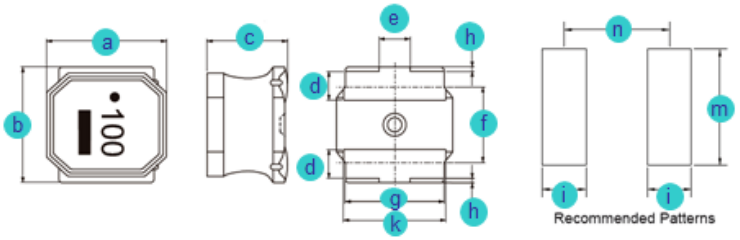
A. Electrical Specifications:

P/N	Marking	Inductance @100KHz (µH)	Inductance Tolerance	DCR ±30%(Ω)	Rated Current (mA)		SRF Min. (MHz)
					I sat	I rms	
CSMS0628D-R90N	0R9	0.9	± 30%	0.013	6700	4600	90
CSMS0628D-1R5N	1R5	1.5	± 30%	0.016	5100	4200	78
CSMS0628D-2R2N	2R2	2.2	± 30%	0.020	4200	3700	68
CSMS0628D-3R0N	3R0	3.0	± 30%	0.023	3600	3400	55
CSMS0628D-4R7M	4R7	4.7	± 20%	0.031	2700	3000	39
CSMS0628D-6R0M	6R0	6.0	± 20%	0.040	2500	2500	30
CSMS0628D-100M	100	10	± 20%	0.065	1900	1900	20
CSMS0628D-150M	150	15	± 20%	0.095	1600	1800	17
CSMS0628D-220M	220	22	± 20%	0.135	1300	1400	12
CSMS0628D-330M	330	33	± 20%	0.220	1100	1100	10
CSMS0628D-470M	470	47	± 20%	0.300	1000	920	8
CSMS0628D-680M	680	68	± 20%	0.420	800	770	5
CSMS0628D-101M	101	100	± 20%	0.600	650	660	3

B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g	h	i	k	m	n
CSMS0628D	6.0 (0.236)	6.0 (0.236)	2.8 (0.110)	1.35 (0.053)	2.3 (0.091)	4.0 (0.157)	4.8 (0.189)	0.3 (0.012)	1.6 (0.063)	5.2 (0.205)	5.7 (0.224)	4.7 (0.185)
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:

1. CSMS0628D-xxx_, “CSMS0628D” = 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 0.9 µH (4600mA) to 100.0 µH (660mA).

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.

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E. Characteristics Curve:

