



CSMS0645D Series SMD WIRE WOUND POWER INDUCTORS (SHIELDED)

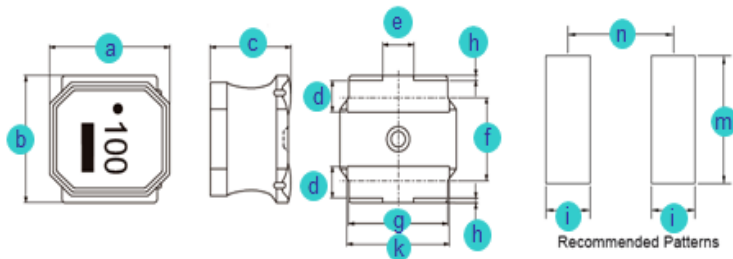
Rev. A

A. Electrical Specifications:

P/N	Marking	Inductance @100KHz (μH)	Inductance Tolerance	DCR ±20%(Ω)	Rated Current (mA)		SRF Min. (MHz)
					I sat	I rms	
CSMS0645D-1R0N	1R0	1.0	± 30%	0.014	9800	4500	110
CSMS0645D-1R3N	1R3	1.3	± 30%	0.016	8200	4200	95
CSMS0645D-1R8N	1R8	1.8	± 30%	0.019	7200	3900	80
CSMS0645D-2R3N	2R3	2.3	± 30%	0.022	6400	3600	60
CSMS0645D-3R0N	3R0	3.0	± 30%	0.024	5600	3300	45
CSMS0645D-4R5M	4R5	4.5	± 20%	0.030	4400	3100	25
CSMS0645D-6R3M	6R3	6.3	± 20%	0.036	3600	3000	15
CSMS0645D-100M	100	10	± 20%	0.046	3100	2400	12
CSMS0645D-150M	150	15	± 20%	0.070	2500	1900	10
CSMS0645D-220M	220	22	± 20%	0.107	2000	1600	7
CSMS0645D-330M	330	33	± 20%	0.141	1650	1400	6
CSMS0645D-470M	470	47	± 20%	0.211	1400	1150	5
CSMS0645D-680M	680	68	± 20%	0.304	1100	950	4
CSMS0645D-101M	101	100	± 20%	0.466	900	750	3

B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g	h	i	k	m	n
CSMS0645D	6.0 (0.236)	6.0 (0.236)	4.5 (0.177)	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:

- CSMS0645D-xxx_, "CSMS0645D" = 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 I_{dc1}: The value of current causes a 30% Inductance reduction from initial value. (at : 20 °C ambient)
- Temperature rise current I_{dc2}: The value of current causes a 40°C temperature rise. (at : 20 °C ambient)
- Rated Current: Either I_{dc1} or I_{dc2} whichever is smaller.
- MSL: Level 1.
- Inductance and Current range: From 1.0 μH (4500mA) to 100.0 μH (750mA).

D. Applications:

- Game Consoles
- Set Top Boxes
- Cables Modems
- Computers



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- 5. Mobile Communication Devices (Cell Phones, Radios, etc.)
- 6. PDA, LCD, DVD, BRP, HD.

E. Characteristics Curve:

