



# CSMS2012D Series SMD WIRE WOUND POWER INDUCTORS (SHIELDED)

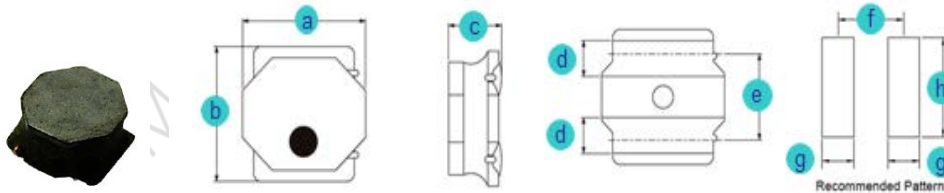
Rev. A

## A. Electrical Specifications:

P/N	Inductance @100KHz (μH)	Inductance Tolerance	DCR ±20%(Ω)	Rated Current (mA)			
				I sat Typ.	I rms Typ.	I sat Max.	I rms Max.
CSMS2012D-1R0N	1.0	± 30%	0.070	2050	1850	1900	1700
CSMS2012D-1R5N	1.5	± 30%	0.090	1800	1650	1650	1500
CSMS2012D-2R2M	2.2	± 20%	0.107	1500	1500	1350	1370
CSMS2012D-3R3M	3.3	± 20%	0.190	1150	1100	1000	1020
CSMS2012D-4R7M	4.7	± 20%	0.241	1050	1000	900	910

## B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g	h
CSMS2012D	2.0 (0.079)	2.0 (0.079)	1.2 (0.047)	0.5 (0.020)	1.25 (0.049)	1.35 (0.053)	0.65 (0.026)	2.0 (0.079)
Tol.	±0.1 (0.004)	±0.1 (0.004)	Max.	±0.2 (0.008)	±0.2 (0.008)	Typ.	Typ.	Typ.



## C. General Information:

1. CSMS02012D-xxx\_, "CSMS2012D" = 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 +120°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 (1700mA) to 4.7 μH (910mA).

## 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:

