



CSM0310D Series SMD WIRE WOUND POWER INDUCTORS (SHIELDED)

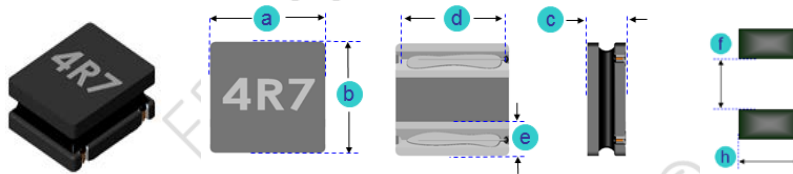
Rev. A

A. Electrical Specifications:

P/N	L (uH)	Tol.	Mark	Test Freq. (MHz)	DCR Max. (Ω)	I sat. Max. (A)	I rms Max. (A)
CSM0310D-1R0N	1.0	± 30%	1R0	1	0.078	1.70	1.525
CSM0310D-1R2N	1.2	± 30%	1R2	1	0.078	1.70	1.480
CSM0310D-1R5N	1.5	± 30%	1R5	1	0.090	1.44	1.370
CSM0310D-2R2N	2.2	± 20%, ± 30%	2R2	1	0.100	1.30	1.300
CSM0310D-2R7M	2.7	± 20%, ± 30%	2R7	1	0.169	1.00	1.020
CSM0310D-3R3M	3.3	± 20%, ± 30%	3R3	1	0.156	1.00	1.030
CSM0310D-3R6M	3.6	± 20%, ± 30%	3R6	1	0.215	0.95	0.900
CSM0310D-4R7M	4.7	± 20%, ± 30%	4R7	1	0.204	0.85	0.900
CSM0310D-5R6M	5.6	± 20%, ± 30%	5R6	1	0.342	0.72	0.820
CSM0310D-6R8M	6.8	± 20%, ± 30%	6R8	1	0.300	0.70	0.745
CSM0310D-100M	10	± 20%, ± 30%	100	1	0.420	0.60	0.620
CSM0310D-150M	15	± 20%, ± 30%	150	1	0.660	0.45	0.480
CSM0310D-180M	18	± 20%, ± 30%	180	1	0.793	0.42	0.470
CSM0310D-220M	22	± 20%, ± 30%	220	1	0.924	0.38	0.410
CSM0310D-270M	27	± 20%, ± 30%	270	1	1.404	0.30	0.350
CSM0310D-330M	33	± 20%, ± 30%	330	1	1.860	0.29	0.345
CSM0310D-390M	39	± 20%, ± 30%	390	1	2.275	0.28	0.280
CSM0310D-470M	47	± 20%, ± 30%	470	1	2.400	0.24	0.270

B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g	h
CSM0310D	3.0 (0.118)	3.0 (0.118)	1.0 (0.039)	2.7 (0.106)	0.9 (0.035)	1.2 (0.047)	1.0 (0.039)	2.7 (0.106)
Tol.	±0.1 (0.004)	±0.1 (0.004)	Max.	Typ.	Typ.	Typ.	Typ.	Typ.



C. General Information:

1. CSM0310D-xxx, “CSM0310D” = P/N, “xxx” = Inductance, “_” = Tolerance.
2. Tolerance “_”: M: ± 20%, N: ± 30%
3. Test Freq.: 1MHz, 1V
4. Magnetically shielded
5. High saturation current
6. I sat: based on inductance decrease 30% (at 20 °C ambient).
7. I rms: based on temperature increase 40°C (at 20 °C ambient).
8. Operating temperature: -25°C to +120°C (Including self-heating).
9. Storage temperature: -40°C to +85°C.
10. Inductance measured: Using HP4285A and Chroma1320 & 3302
11. DCR measured: CHROMA 16502 or equivalent.
12. Inductance and Current Range: From 1.0 uH (1.525 A) to 47 uH (0.270 A)
13. MSL: Level 1.



CSM0310D Series SMD WIRE WOUND POWER INDUCTORS (SHIELDED)

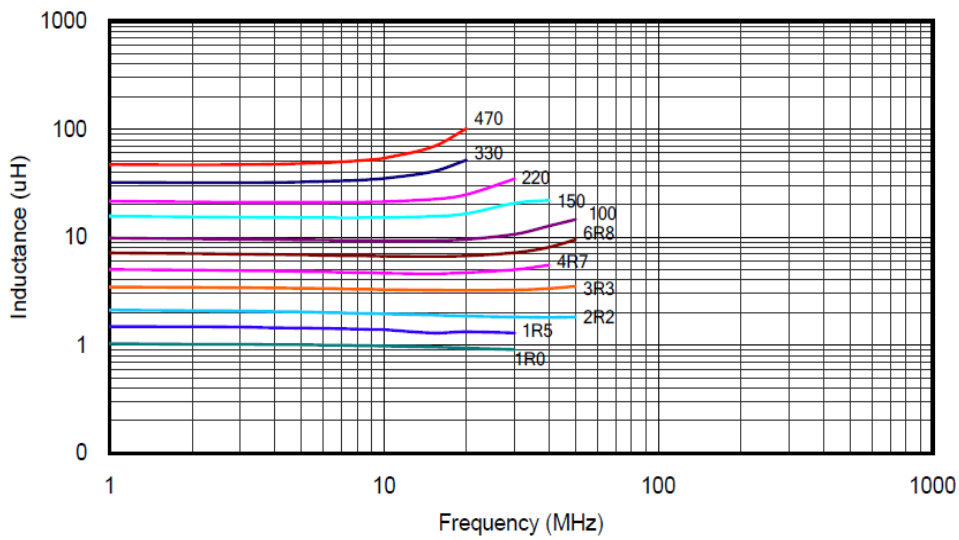
Rev. A

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. Characteristic Curve:

Inductance vs. Frequency



Inductance vs. DC Current

