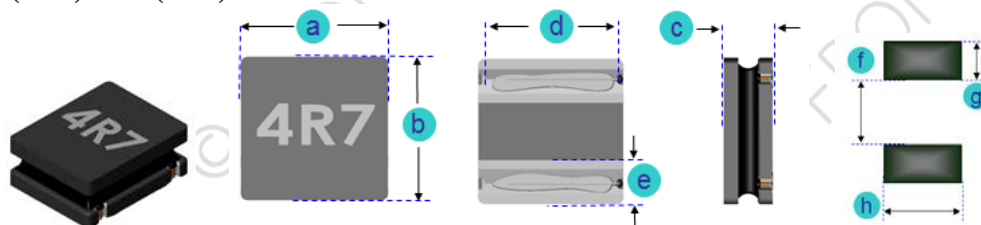


A. Electrical Specifications:

P/N	L (uH)	Tol.	Mark	Test Freq. (MHz)	DCR Max. (Ω)	I sat. Max. (A)	I rms Max. (A)
CSM0315D-1R0N	1.0	± 20%, ± 30%	1R0	1	0.0360	2.10	2.10
CSM0315D-1R5N	1.5	± 20%, ± 30%	1R5	1	0.0480	1.80	1.90
CSM0315D-1R8N	1.8	± 20%, ± 30%	1R8	1	0.0650	1.75	1.70
CSM0315D-2R2N	2.2	± 20%, ± 30%	2R2	1	0.0720	1.48	1.60
CSM0315D-2R7N	2.7	± 20%, ± 30%	2R7	1	0.0975	1.52	1.43
CSM0315D-3R3M	3.3	± 20%, ± 30%	3R3	1	0.0960	1.21	1.45
CSM0315D-3R6M	3.6	± 20%, ± 30%	3R6	1	0.1365	1.28	1.20
CSM0315D-4R7M	4.7	± 20%, ± 30%	4R7	1	0.1360	1.08	1.25
CSM0315D-5R1M	5.6	± 20%, ± 30%	5R6	1	0.1625	1.08	1.09
CSM0315D-6R2M	6.2	± 20%, ± 30%	6R2	1	0.2535	1.00	0.86
CSM0315D-6R8M	6.8	± 20%, ± 30%	6R8	1	0.2110	0.90	0.90
CSM0315D-100M	10	± 20%, ± 30%	100	1	0.2678	0.75	0.87
CSM0315D-120M	12	± 20%, ± 30%	120	1	0.4160	0.70	0.68
CSM0315D-150M	15	± 20%, ± 30%	150	1	0.4220	0.58	0.65
CSM0315D-180M	18	± 20%, ± 30%	180	1	0.5590	0.56	0.59
CSM0315D-220M	22	± 20%, ± 30%	220	1	0.5980	0.47	0.55
CSM0315D-330M	33	± 20%, ± 30%	330	1	0.9590	0.39	0.45
CSM0315D-390M	39	± 20%, ± 30%	390	1	1.2940	0.41	0.39
CSM0315D-430M	43	± 20%, ± 30%	430	1	1.3780	0.37	0.37
CSM0315D-470M	47	± 20%, ± 30%	470	1	1.4060	0.32	0.40
CSM0315D-560M	56	± 20%, ± 30%	560	1	1.6640	0.33	0.34
CSM0315D-680M	68	± 20%, ± 30%	680	1	3.5100	0.28	0.23
CSM0315D-101M	100	± 20%, ± 30%	101	1	2.9200	0.23	0.25

B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g	h
CSM0315D	3.0 (0.118)	3.0 (0.118)	1.5 (0.059)	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:

- CSM0315D-xxx, "CSM0315D" = P/N, "xxx" = Inductance, "-" = Tolerance.
- Tolerance "-": M: ± 20%, N: ± 30%
- Test Freq.: 1MHz, 1V
- Magnetically shielded
- High saturation current
- I sat: based on inductance decrease 30% (at 20 °C ambient).
- I rms: based on temperature increase 40°C (at 20 °C ambient).
- Operating temperature range: -25°C to +105°C (Including self-heating).
- Storage temperature: -40°C to +85°C.
- Inductance measured: CH-3302, HP4286A or equivalent.
- DCR measured: CHROMA 16502 or equivalent.
- Inductance and Current Range: From 1.0 uH (2.1 A) to 100 uH (0.25 A)
- MSL: Level 1.



CSM0315D Series SMD WIRE WOUND POWER INDUCTORS (SHIELDED)

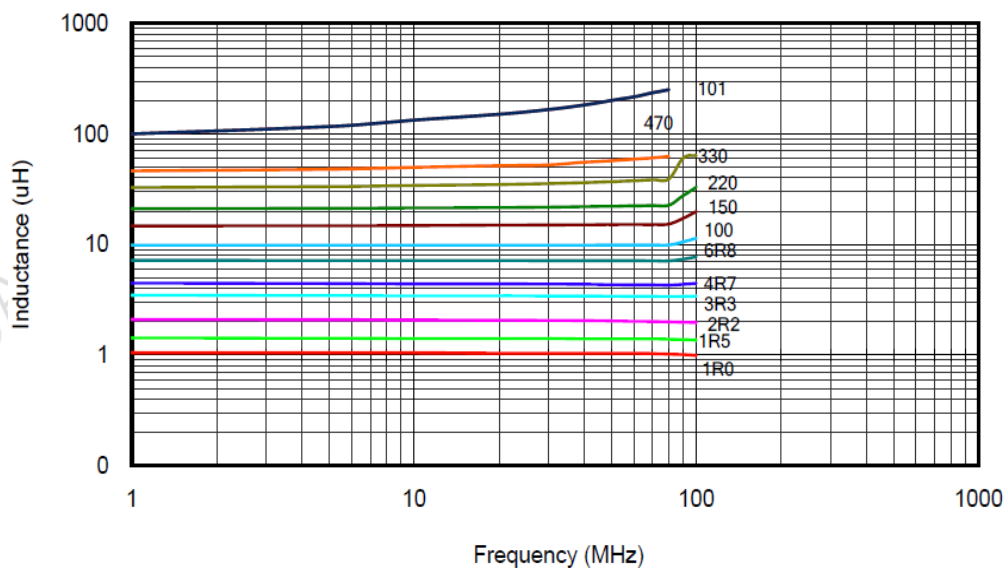
Rev. A

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. Characteristics Curve:

Inductance vs. Frequency



Inductance vs. DC Current

