



CSS054D Series SMD WIRE WOUND POWER INDUCTORS (SHIELDED)

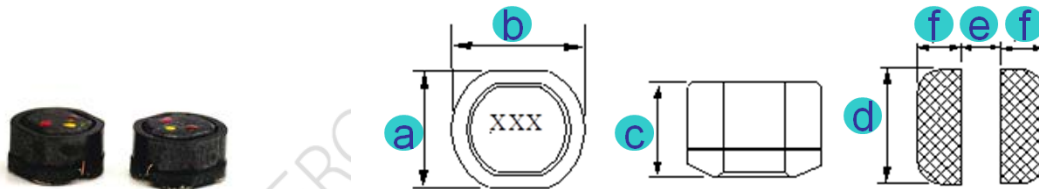
Rev. A

A. Electrical Specifications:

P/N	Marking	Inductance (μH)	Test Freq. (KHz)	DCR Max. (Ω)	Rated Current (A) Max.
CSS054D-100_	100	10	100	0.07	1.65
CSS054D-120_	120	12	100	0.07	1.57
CSS054D-150_	150	15	100	0.08	1.39
CSS054D-180_	180	18	100	0.10	1.29
CSS054D-220_	220	22	100	0.13	1.12
CSS054D-270_	270	27	100	0.16	1.06
CSS054D-330_	330	33	100	0.18	0.97
CSS054D-390_	390	39	100	0.18	0.91
CSS054D-470_	470	47	100	0.27	0.80
CSS054D-560_	560	56	100	0.29	0.76
CSS054D-680_	680	68	100	0.33	0.68
CSS054D-820_	820	82	100	0.43	0.62
CSS054D-101_	101	100	10	0.49	0.55
CSS054D-121_	121	120	10	0.68	0.49
CSS054D-151_	151	150	10	0.94	0.44
CSS054D-181_	181	180	10	1.00	0.40
CSS054D-221_	221	220	10	1.18	0.36
CSS054D-271_	271	270	10	1.30	0.33

B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f
CSS054D	7.0 (0.276)	7.5 (0.295)	4.5 (0.177)	7.5 (0.295)	2.0 (0.079)	4.0 (0.157)
Tol.	± 0.35 (0.014)	± 0.35 (0.014)	± 0.4 (0.016)	Typ.	Typ.	Typ.



C. General Information:

1. P/N: CSS054D-xxx_, "CSS054D" = Type, "xxx" = Inductance, "_" = Tolerance.
2. Tolerance "_": M = $\pm 20\%$.
3. Operating temperature range: -25°C to $+85^{\circ}\text{C}$ (Including self-generated heat).
4. Inductance measured using the HP4284A LCR meter.
5. DCR measured using 502BC milli-ohm meter.
6. Inductance drop no more than 10% of initial value at rated current, temperature rise $\Delta t < 40^{\circ}\text{C}$.
7. Inductance and Current range: From 10 μH (1.65A) to 270 μH (0.33A).
8. MSL: Level 1.

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.

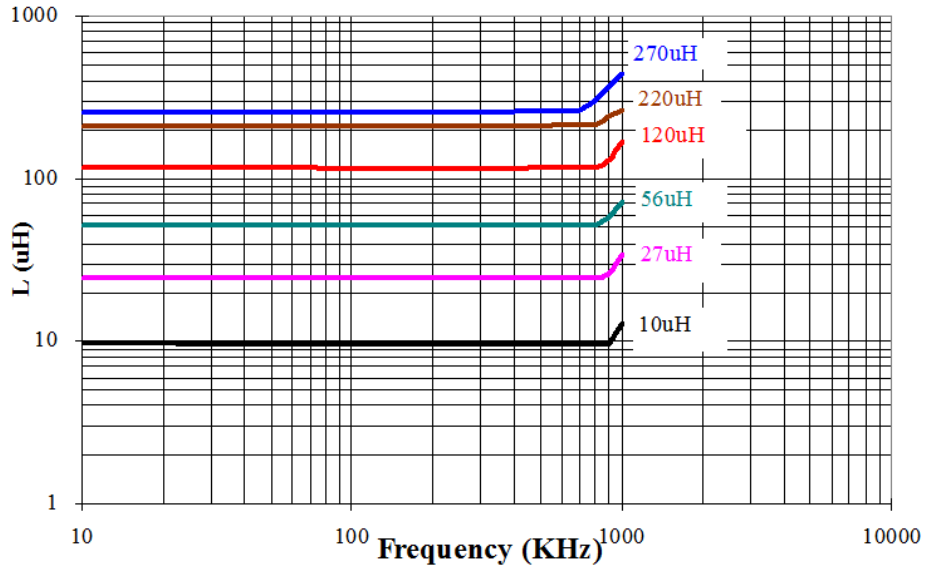


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E. Characteristics Curve:

L vs. Frequency:



L vs. Current:

