



CSS105D Series SMD WIRE WOUND POWER INDUCTORS (SHIELDED)

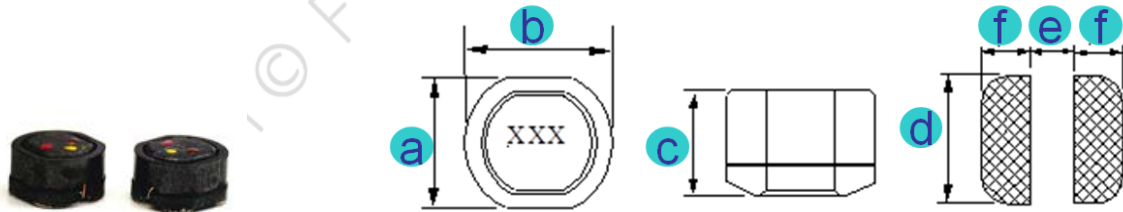
Rev. A

A. Electrical Specifications:

P/N	Marking	Inductance (μH)	Test Freq. (KHz)	DCR Max. (Ω)	Rated Current (A) Max.
CSS105D-100_	100	10	100	0.05	2.65
CSS105D-120_	120	12	100	0.05	2.50
CSS105D-150_	150	15	100	0.06	2.45
CSS105D-180_	180	18	100	0.06	2.40
CSS105D-220_	220	22	100	0.07	2.20
CSS105D-270_	270	27	100	0.08	2.00
CSS105D-330_	330	33	100	0.10	1.80
CSS105D-390_	390	39	100	0.11	1.65
CSS105D-470_	470	47	100	0.12	1.50
CSS105D-560_	560	56	100	0.15	1.38
CSS105D-680_	680	68	100	0.17	1.26
CSS105D-820_	820	82	100	0.20	1.14
CSS105D-101_	101	100	10	0.25	1.05
CSS105D-121_	121	120	10	0.28	0.95
CSS105D-151_	151	150	10	0.40	0.85
CSS105D-181_	181	180	10	0.48	0.77
CSS105D-221_	221	220	10	0.52	0.70
CSS105D-271_	271	270	10	0.70	0.63
CSS105D-331_	331	330	10	0.80	0.57
CSS105D-391_	391	390	10	1.08	0.52
CSS105D-471_	471	470	10	1.20	0.48
CSS105D-561_	561	560	10	1.34	0.44
CSS105D-681_	681	680	10	1.78	0.40
CSS105D-821_	821	820	10	2.00	0.36

B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f
CSS105D	11.6 (0.457)	12.6 (0.496)	5.4 (0.213)	9.5 (0.0374)	2.5 (0.098)	5.0 (0.197)
Tol.	± 0.5 (0.020)	± 0.5 (0.020)	± 0.5 (0.020)	Typ.	Typ.	Typ.



C. General Information:

1. P/N: CSS105D-xxx_, "CSS105D" = 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 (2.65A) to 820 μH (0.36A).
8. MSL: Level 1.



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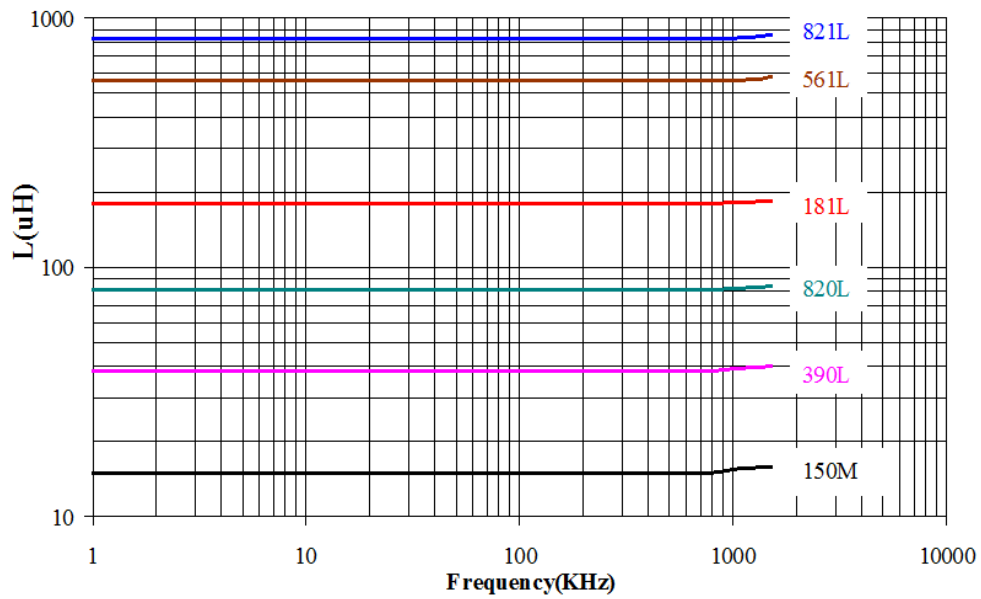
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D. Applications:

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:

L vs. Frequency:



L vs. Current:

