CSN105D Series
SMD WIRE WOUND POWER INDUCTORS (UNSHIELDED)
Rev. A

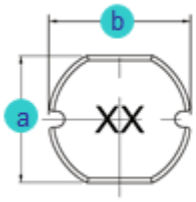
A. Electrical Specifications:

P/N	Marking	Inductance (µH)	Test Freq. (KHz)	DCR Max. (Ω)	Rated Current (A)
CSN105D-100M	100	10	100	0.06	2.60
CSN105D-120M	120	12	100	0.07	2.45
CSN105D-150M	150	15	100	0.08	2.27
CSN105D-180M	180	18	100	0.09	2.15
CSN105D-220M	220	22	100	0.10	1.95
CSN105D-270M	270	27	100	0.11	1.76
CSN105D-330M	330	33	100	0.12	1.50
CSN105D-390M	390	39	100	0.14	1.37
CSN105D-470K	470	47	100	0.17	1.28
CSN105D-560K	560	56	100	0.19	1.17
CSN105D-680K	680	68	100	0.22	1.11
CSN105D-820K	820	82	100	0.25	1.00
CSN105D-101K	101	100	10	0.35	0.97
CSN105D-121K	121	120	10	0.40	0.89
CSN105D-151K	151	150	10	0.47	0.78
CSN105D-181K	181	180	10	0.63	0.72
CSN105D-221K	221	220	10	0.73	0.66
CSN105D-271K	271	270	10	0.97	0.57
CSN105D-331K	331	330	10	1.15	0.52
CSN105D-391K	391	390	10	1.30	0.48
CSN105D-471K	471	470	10	1.48	0.42
CSN105D-561K	561	560	10	1.90	0.33
CSN105D-681K	681	680	10	2.25	0.28
CSN105D-821K	821	820	10	2.55	0.24

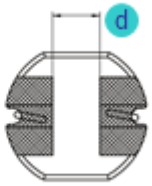
B. Dimensions: mm (Inch)

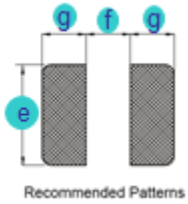
Series	a	b	c	d	e	f	g
CSN105D	9.0 (0.354)	10.0 (0.394)	5.4 (0.213)	2.2 (0.087)	9.5 (0.374)	2.5 (0.098)	3.75 (0.148)
Tol.	±0.4 (0.016)	±0.4 (0.016)	±0.4 (0.016)	Typ.	Typ.	Typ.	Typ.











Recommended Patterns

C. General Information:

1. CSN105D-xxx_, “CSN105D” = P/N, “xxx” = Inductance, “_” = Tolerance.
2. Tolerance “_”: M: ± 20%, L= ± 15%, K = ±10%.
3. Operating temperature range: -30ºC to +100ºC (Including self-heating).
4. Storage temperature: -40ºC to +85ºC.
5. Inductance measured using the HP4284A and Chroma1320 & 3302.
6. DCR measured using Chroma 16502 milliohm meter.
7. Inductance drop no more than 10% of initial value at rated current, temperature rise $\Delta t < 40$ºC.
8. Inductance and Current range: From 10.0 µH (2.60A) to 820.0 µH (0.24A).
9. 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:

