



CSN054D Series SMD WIRE WOUND POWER INDUCTORS (UNSHIELDED)

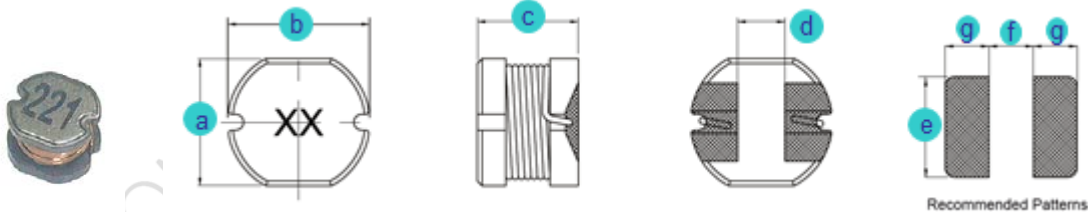
Rev. A

A. Electrical Specifications:

P/N	Marking	Inductance (μH)	Test Freq. (KHz)	DCR Max. (Ω)	Rated Current (A)
CSN054D-1R0M	1R0	1.0	100	0.015	4.00
CSN054D-1R9M	1R9	1.9	100	0.039	3.00
CSN054D-2R2M	2R2	2.2	100	0.020	4.00
CSN054D-3R3M	3R3	3.3	100	0.021	3.00
CSN054D-4R7M	4R7	4.7	100	0.028	2.00
CSN054D-6R8M	6R8	6.8	100	0.042	2.00
CSN054D-100M	100	10	100	0.10	1.44
CSN054D-120M	120	12	100	0.12	1.40
CSN054D-150M	150	15	100	0.14	1.30
CSN054D-180M	180	18	100	0.15	1.23
CSN054D-220M	220	22	100	0.18	1.11
CSN054D-270M	270	27	100	0.20	0.97
CSN054D-330L	330	33	100	0.23	0.88
CSN054D-390L	390	39	100	0.32	0.80
CSN054D-470L	470	47	100	0.37	0.72
CSN054D-560K	560	56	100	0.42	0.68
CSN054D-680K	680	68	100	0.46	0.61
CSN054D-820K	820	82	100	0.60	0.58
CSN054D-101K	101	100	10	0.70	0.52
CSN054D-121K	121	120	10	0.93	0.48
CSN054D-151K	151	150	10	1.10	0.40
CSN054D-181K	181	180	10	1.38	0.38
CSN054D-221K	221	220	10	1.57	0.35
CSN054D-271K	271	270	10	1.85	0.30

B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g
CSN054D	5.2 (0.205)	5.8 (0.228)	4.5 (0.177)	1.5 (0.059)	5.5 (0.217)	1.7 (0.067)	2.15 (0.085)
Tol.	± 0.3 (0.012)	± 0.3 (0.012)	± 0.35 (0.014)	Typ.	Typ.	Typ.	Typ.



C. General Information:

1. CSN054D-xxx_, "CSN054D" = P/N, "xxx" = Inductance, "_" = Tolerance.
2. Tolerance "_": M: $\pm 20\%$, L: $\pm 15\%$, K: $\pm 10\%$.
3. Operating temperature range: -30°C to $+100^{\circ}\text{C}$ (Including self-heating).
4. Storage temperature: -40°C to $+85^{\circ}\text{C}$.
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 $\Delta t < 40^{\circ}\text{C}$.
8. Inductance and Current range: From 1.0 μH (4.00A) to 270.0 μH (0.30A).
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:

