



CSN054D Series SMD WIRE WOUND POWER INDUCTORS (UNSHIELDED)

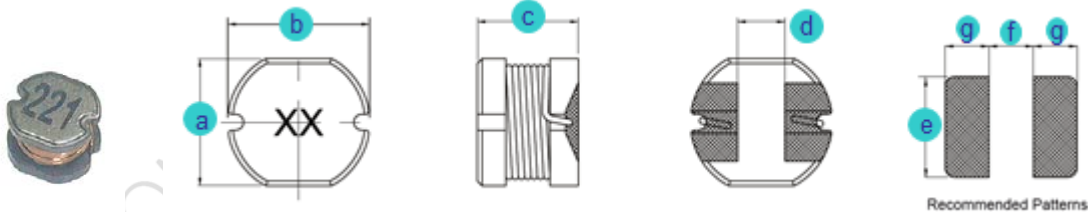
Rev. A

A. Electrical Specifications:

P/N	Marking	Inductance (μ H)	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



CSN054D Series SMD WIRE WOUND POWER INDUCTORS (UNSHIELDED)

Rev. A

E. Characteristics Curve:

