



# CSN075D Series SMD WIRE WOUND POWER INDUCTORS (UNSHIELDED)

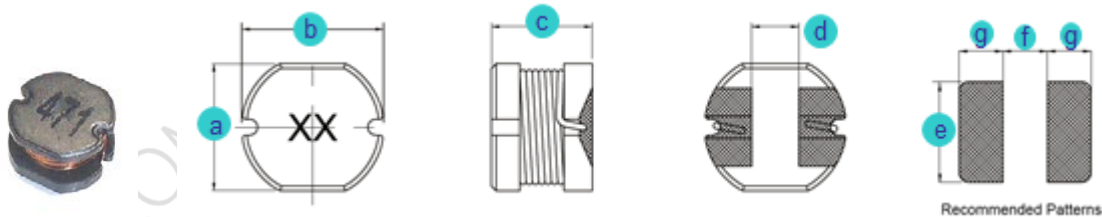
Rev. A

## A. Electrical Specifications:

P/N	Marking	Inductance ( $\mu$ H)	Test Freq. (KHz)	DCR Max. ( $\Omega$ )	Rated Current (A)
CSN075D-6R8K	6R8	6.8	100	0.058	3.00
CSN075D-8R2K	8R2	8.2	100	0.06	2.40
CSN075D-100K	100	10	100	0.07	2.30
CSN075D-120K	120	12	100	0.08	2.00
CSN075D-150K	150	15	100	0.09	1.80
CSN075D-180K	180	18	100	0.10	1.60
CSN075D-220K	220	22	100	0.11	1.50
CSN075D-270K	270	27	100	0.12	1.30
CSN075D-330K	330	33	100	0.13	1.20
CSN075D-390K	390	39	100	0.16	1.10
CSN075D-470K	470	47	100	0.18	1.10
CSN075D-560K	560	56	100	0.24	0.94
CSN075D-680K	680	68	100	0.28	0.85
CSN075D-820K	820	82	100	0.37	0.78
CSN075D-101K	101	100	10	0.43	0.72
CSN075D-121K	121	120	10	0.47	0.66
CSN075D-151K	151	150	10	0.64	0.58
CSN075D-181K	181	180	10	0.71	0.51
CSN075D-221K	221	220	10	0.96	0.49
CSN075D-271K	271	270	10	1.11	0.42
CSN075D-331K	331	330	10	1.26	0.40
CSN075D-391K	391	390	10	1.77	0.36
CSN075D-471K	471	470	10	1.96	0.34
CSN075D-302K	302	3000	1	10.0	0.12

## B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g
CSN075D	7.0 (0.276)	7.8 (0.307)	5.0 (0.197)	1.6 (0.063)	7.5 (0.295)	2.0 (0.079)	3.0 (0.118)
Tol.	$\pm 0.3$ (0.012)	$\pm 0.3$ (0.012)	$\pm 0.5$ (0.020)	Typ.	Typ.	Typ.	Typ.



## C. General Information:

1. CSN075D-xxx\_, "CSN075D" = P/N, "xxx" = Inductance, "\_" = Tolerance.
2. Tolerance "\_": M:  $\pm 20\%$ , L:  $\pm 15\%$ , K =  $\pm 10\%$ .
3. Operating temperature range:  $-30^{\circ}\text{C}$  to  $+100^{\circ}\text{C}$  (Including self-heating).
4. Storage temperature:  $-40^{\circ}\text{C}$  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 6.80  $\mu\text{H}$  (3.00A) to 3000.0  $\mu\text{H}$  (0.12A).
9. MSL: Level 1.

## D. Applications:

1. Game Consoles
2. Set Top Boxes
3. Cables Modems
4. Computers



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- 5. Mobile Communication Devices (Cell Phones, Radios, etc.)
- 6. PDA, LCD, DVD, BRP, HD

## E. Characteristics Curve:

