



# CSN043D Series SMD WIRE WOUND POWER INDUCTORS (UNSHIELDED)

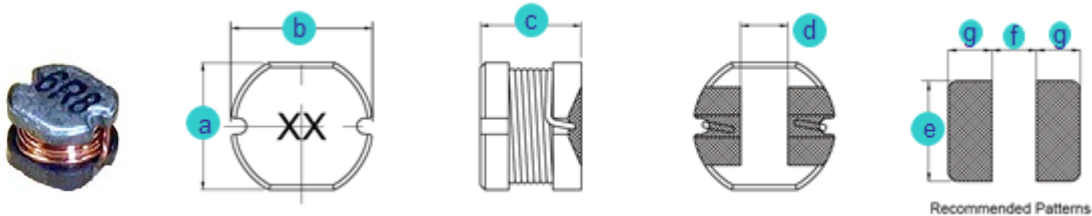
Rev. A

## A. Electrical Specifications:

P/N	Marking	Inductance ( $\mu\text{H}$ )	Test Freq. (KHz)	DCR Max. ( $\Omega$ )	Rated Current (A)
CSN043D-1R0M	1R0	1.0	100	0.0487	2.56
CSN043D-1R4M	1R4	1.4	100	0.0562	2.52
CSN043D-1R8M	1R8	1.8	100	0.0637	1.95
CSN043D-2R2M	2R2	2.2	100	0.0712	1.75
CSN043D-2R7M	2R7	2.7	100	0.0787	1.58
CSN043D-3R3M	3R3	3.3	100	0.0862	1.44
CSN043D-3R9M	3R9	3.9	100	0.0937	1.33
CSN043D-4R7M	4R7	4.7	100	0.1087	1.15
CSN043D-5R6M	5R6	5.6	100	0.1257	0.99
CSN043D-6R8M	6R8	6.8	100	0.1312	0.95
CSN043D-8R2M	8R2	8.2	100	0.1462	0.84
CSN043D-100M	100	10	100	0.182	1.04
CSN043D-120M	120	12	100	0.210	0.97
CSN043D-150M	150	15	100	0.235	0.85
CSN043D-180M	180	18	100	0.338	0.74
CSN043D-220M	220	22	100	0.378	0.68
CSN043D-270M	270	27	100	0.522	0.62
CSN043D-330K	330	33	100	0.540	0.56
CSN043D-390K	390	39	100	0.587	0.52
CSN043D-470K	470	47	100	0.844	0.44
CSN043D-560K	560	56	100	0.937	0.42
CSN043D-680K	680	68	100	1.117	0.37
CSN043D-331K	331	330	10	3.350	0.10

## B. Dimensions: mm (Inch)

Series	a	b	c	d	e	f	g
CSN043D	4.0 (0.157)	4.5 (0.177)	3.2 (0.126)	1.2 (0.047)	4.5 (0.177)	1.5 (0.059)	1.75 (0.069)
Tol.	$\pm 0.3$ (0.012)	$\pm 0.3$ (0.012)	$\pm 0.3$ (0.012)	Typ.	Typ.	Typ.	Typ.



## C. General Information:

1. CSN043D-xxx\_, "CSN043D" = 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 Chroma 1320 & 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  $\mu\text{H}$  (2.56A) to 330.0  $\mu\text{H}$  (0.10A).
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

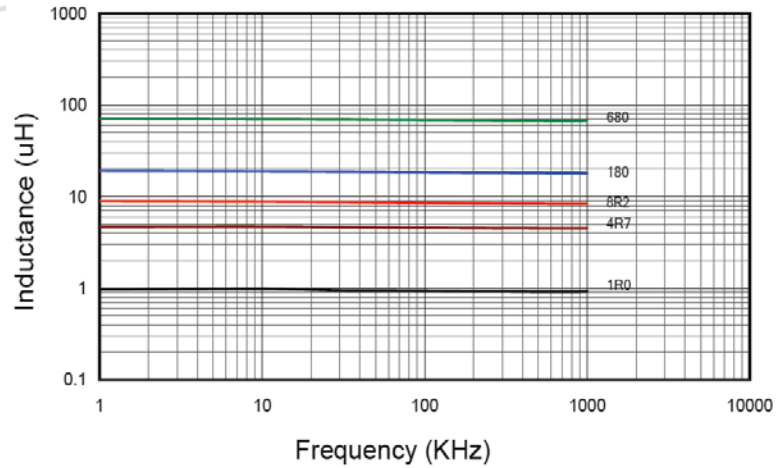


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## E. Characteristics Curve:

Inductance vs. Frequency



Inductance vs. DC Current

