



Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065

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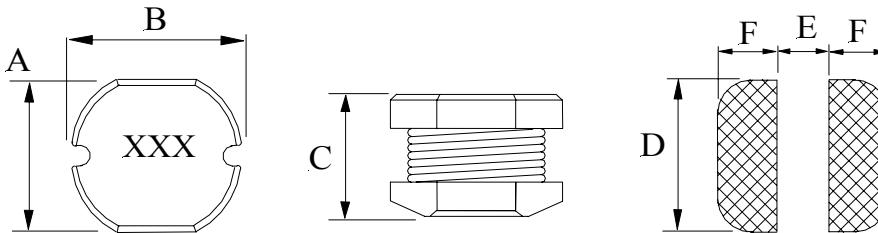
Web: frontierusa.com

SMD Power Choke—CSN043D series

A. Electrical specifications:

Part No.	Mark	L (uH)	Test Freq.	DCR (max) Ω	I rms. (A)
CSN043D-1R0M	1R0	1.0	100 KHz	0.0487	2.56
CSN043D-1R4M	1R4	1.4	100 KHz	0.0562	2.52
CSN043D-1R8M	1R8	1.8	100 KHz	0.0637	1.95
CSN043D-2R2M	2R2	2.2	100 KHz	0.0712	1.75
CSN043D-2R7M	2R7	2.7	100 KHz	0.0787	1.58
CSN043D-3R3M	3R3	3.3	100 KHz	0.0862	1.44
CSN043D-3R9M	3R9	3.9	100 KHz	0.0937	1.33
CSN043D-4R7M	4R7	4.7	100 KHz	0.1087	1.15
CSN043D-5R6M	5R6	5.6	100 KHz	0.1257	0.99
CSN043D-6R8M	6R8	6.8	100 KHz	0.1312	0.95
CSN043D-8R2M	8R2	8.2	100 KHz	0.1462	0.84
CSN043D-100M	100	10	100 KHz	0.182	1.04
CSN043D-120M	120	12	100 KHz	0.210	0.97
CSN043D-150M	150	15	100 KHz	0.235	0.85
CSN043D-180M	180	18	100 KHz	0.338	0.74
CSN043D-220M	220	22	100 KHz	0.378	0.68
CSN043D-270M	270	27	100 KHz	0.522	0.62
CSN043D-330K	330	33	100 KHz	0.540	0.56
CSN043D-390K	390	39	100 KHz	0.587	0.52
CSN043D-470K	470	47	100 KHz	0.844	0.44
CSN043D-560K	560	56	100 KHz	0.937	0.42
CSN043D-680K	680	68	100 KHz	1.117	0.37

B. Mechanical dimensions: (Unit: mm)



Type 1: Unshielded

SERIES #	A	B	C	D	E	F	Type
CSN043D	4.0±0.3	4.5±0.3	3.2±0.3	4.5	1.5	1.75	1

C. Features:

- Tolerance: M: $\pm 20\%$, L: $\pm 15\%$, K: $\pm 10\%$.
- Operating temperature: -25°C TO $+85^{\circ}\text{C}$.
- Inductance measured using the HP4284A LCR meter.
- DCR measured using the 502BC milli-ohm meter.
- Inductance drops no more than 10% at rated current applied or temperature rises $\Delta t < 40^{\circ}\text{C}$.
- Inductance range: CSN043D-series From 1.0uH(2.56A) to 68uH(0.37A).

★ Custom specifications are available.

Note: **RoHS** compliant; for the **ROHS** parts, we add “-LFR” at the end of the P/N.



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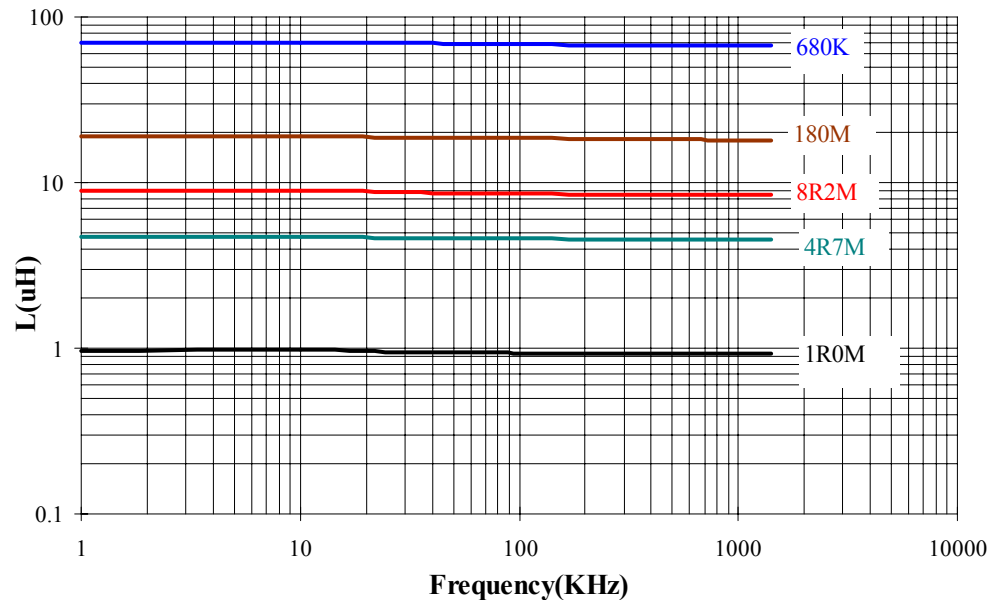
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D. Characteristic curve:

1. L vs. Frequency:



2. L vs. Current:

