



Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065
 TEL: (805) 522-9998 FAX: (805) 522-9989
 E-mail: frontiersales@frontierusa.com
 Web: frontierusa.com

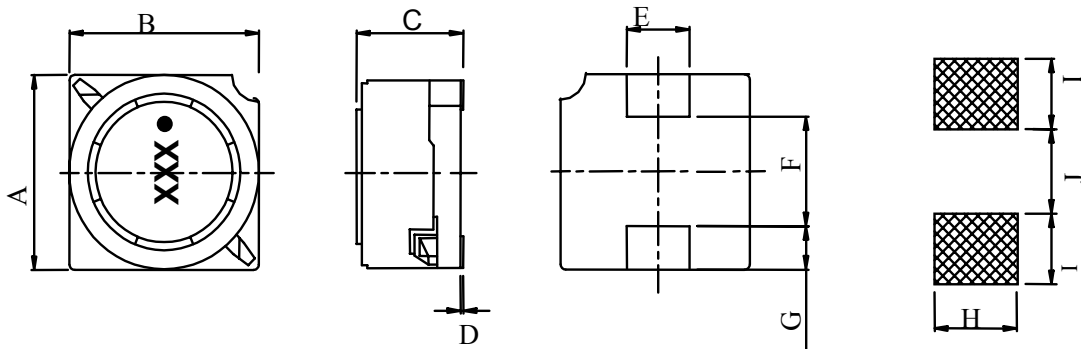
SMD Power Choke—CSS1045F series

A. Electrical specifications:

Part No.	Mark	L (uH) ± 20%	Test Freq.	DCR (max) (Ω) (@20°C)	I sat. (A)	I rms. (A)
CSS1045F-100M	100	10	1KHz	0.0437	3.00	2.50
CSS1045F-150M	150	15	1KHz	0.0567	2.40	2.20
CSS1045F-220M	220	22	1KHz	0.0709	2.10	1.90
CSS1045F-330M	330	33	1KHz	0.0978	1.60	1.70
CSS1045F-470M	470	47	1KHz	0.140	1.40	1.50
CSS1045F-680M	680	68	1KHz	0.203	1.20	1.30
CSS1045F-101M	101	100	1KHz	0.282	1.00	1.10
CSS1045F-151M	151	150	1KHz	0.420	0.79	0.81
CSS1045F-221M	221	220	1KHz	0.705	0.65	0.70
CSS1045F-331M	331	330	1KHz	0.914	0.54	0.58
CSS1045F-471M	471	470	1KHz	1.534	0.47	0.47
CSS1045F-681M	681	680	1KHz	2.045	0.38	0.38
CSS1045F-102M	102	1000	1KHz	3.360	0.32	0.29
CSS1045F-152M	152	1500	1KHz	4.080	0.22	0.26

B. Mechanical dimensions: (Unit: mm)

SERIES #	A	B	C	D (Typ.)	E	F	G	H	I	J
CSS0745F	10.0±0.3	10.0±0.3	4.5±0.3	0.15	3.0±0.1	6.0±0.2	2.0±0.15	3.2	2.5	5.6



Type 2: Shielded

Land Pattern

C. Features:

1. Tolerance: N: ± 30%, M: ±20%, L: ± 15%, K: ± 10%.
2. Operating temperature: -40°C to +85°C.
3. Inductance measured on the HP4284A LCR meter.
4. DCR measured on the 502BC milli-ohm meter.
5. Rated current: Value obtained when current flows and the temperature has rise $\Delta t < 30^\circ\text{C}$ or when DC current flows and the initial value of inductance has fallen by 10%, whichever is smaller
6. Inductance and Current range:
 - a.) CSS1045F-series: From 10 μH (2.50A) to 1500 μH (0.26A).

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



Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065

TEL: (805) 522-9998 FAX: (805) 522-9989

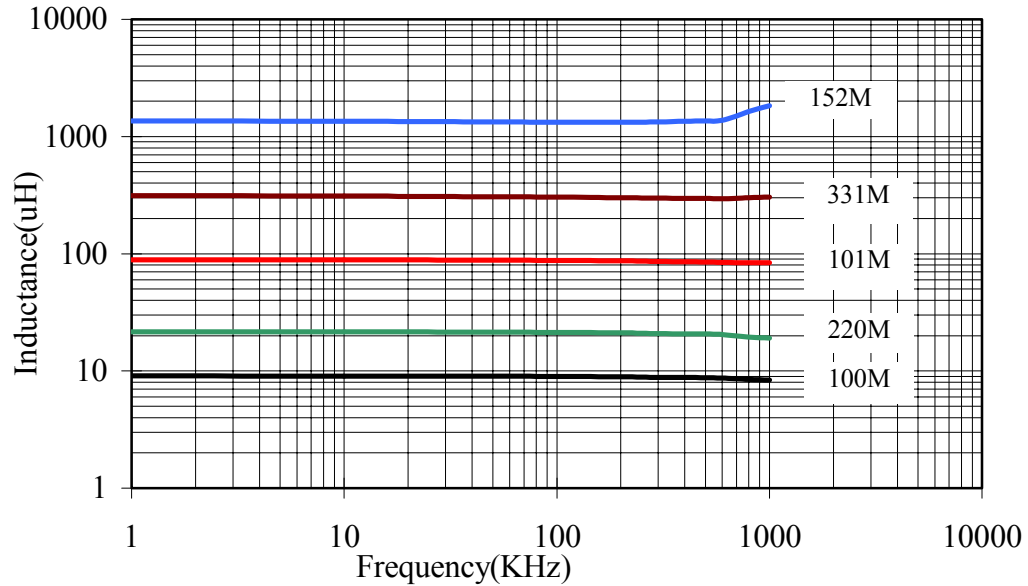
E-mail: frontiersales@frontierusa.com

Web: frontierusa.com

SMD Power Choke—CSS1045F series

D. Characteristic curve:

1. L vs. Frequency:



2. Typical L vs. DC Current:

