



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: <http://www.frontierusa.com>

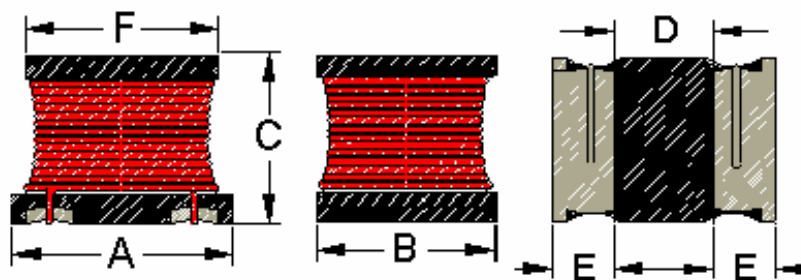
SMD Square Drum Inductors—1812SDF series

A. Electrical specifications:

Part No.	Mark	L (uH)	Tolerance	Test Freq.	SRF TYP. (MHz)	DCR (Ω) Max.	IDC Max. (A)
1812SDF-1R0□-LFR	1R0	1.00	M	1.0 KHz	100	0.08	1.080
1812SDF-1R5□-LFR	1R5	1.50	M	1.0 KHz	85.0	0.09	1.000
1812SDF-2R2□-LFR	2R2	2.20	M	1.0 KHz	60.0	0.11	0.900
1812SDF-3R3□-LFR	3R3	3.30	M	1.0 KHz	47.0	0.13	0.800
1812SDF-4R7□-LFR	4R7	4.70	M, K	1.0 KHz	35.0	0.15	0.750
1812SDF-6R8□-LFR	6R8	6.80	M, K	1.0 KHz	30.0	0.20	0.720
1812SDF-100□-LFR	100	10.0	K, J	1.0 KHz	23.0	0.24	0.650
1812SDF-150□-LFR	150	15.0	K, J	1.0 KHz	20.0	0.32	0.570
1812SDF-220□-LFR	220	22.0	K, J	1.0 KHz	15.0	0.60	0.420
1812SDF-330□-LFR	330	33.0	K, J	1.0 KHz	12.0	1.00	0.310
1812SDF-470□-LFR	470	47.0	K, J	1.0 KHz	10.0	1.10	0.280
1812SDF-680□-LFR	680	68.0	K, J	1.0 KHz	8.4	1.07	0.220
1812SDF-101□-LFR	101	100	K, J	1.0 KHz	6.8	2.20	0.190
1812SDF-151□-LFR	151	150	K, J	1.0 KHz	5.5	3.50	0.130
1812SDF-221□-LFR	221	220	K, J	1.0 KHz	4.5	4.00	0.110
1812SDF-331□-LFR	331	330	K, J	1.0 KHz	3.6	6.80	0.100
1812SDF-471□-LFR	471	470	K, J	1.0 KHz	3.0	8.50	0.090

B. Mechanical dimensions: (Unit: mm)

SERIES	A	B	C	D	E	F	Type
1812SDF	4.5 ± 0.30	3.2 ± 0.30	2.6 ± 0.30	1.0 (Min.)	1.0 (Min.)	4.0 Ref.	2



Type: 2

C. Feature:

- (Tolerance): J = ± 5%, K = ± 10%, M = ± 20%.
- Operating temperature: -25°C TO +85°C.
- Electrical specifications at +25°C.
- Inductance measured on the HP4284A LCR meter
- DCR measured on the 502BC milli-ohm meter.
- I DC: Inductance drops no more than 10% at rated current or the $\Delta t \leq 40^\circ\text{C}$.
- Temperature rises $\Delta t < 40^\circ\text{C}$ (Typical) at rated current and room temperature 20°C.
- Tape and reel packing. Suitable for IR re-flows soldering.
- RoHS** compliant parts.

D. Applications:

* Power supply line choke. * DC-DC Converters. * Notebooks. * Filters. * Telecommunications devices.

★ *Special specifications are available for customer's requirement.*