



# Frontier Electronics Corp.

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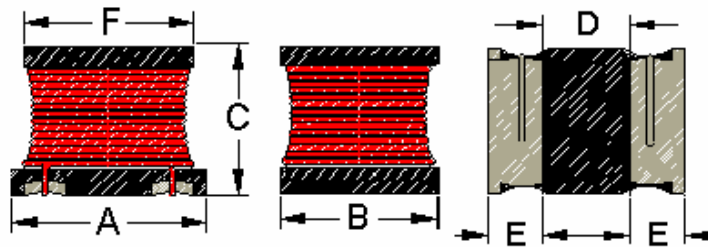
## SMD Square Drum Ferrite-core Inductors—1812SDF series

### A. Electrical specifications:

Part No.	Mark	L (uH)	Tolerance	Test Freq.	SRF Min (MHz)	DCR (Ω) ± 40%	IDC Max. (A)
1812SDF-1R0	1R0	1.00	M	1.0 MHz/1.0V rms	100	0.08	1.080
1812SDF-1R5	1R5	1.50	M	1.0 MHz/1.0V rms	85.0	0.09	1.000
1812SDF-2R2	2R2	2.20	M	1.0 MHz/1.0V rms	60.0	0.11	0.900
1812SDF-3R3	3R3	3.30	M	1.0 MHz/1.0V rms	47.0	0.13	0.800
1812SDF-4R7	4R7	4.70	M, K	1.0 MHz/1.0V rms	35.0	0.15	0.750
1812SDF-6R8	6R8	6.80	M, K	1.0 MHz/1.0V rms	30.0	0.20	0.720
1812SDF-100	100	10.0	K, J	1.0 MHz/1.0V rms	23.0	0.24	0.650
1812SDF-150	150	15.0	K, J	1.0 MHz/1.0V rms	20.0	0.32	0.570
1812SDF-220	220	22.0	K, J	1.0 MHz/1.0V rms	15.0	0.60	0.420
1812SDF-330	330	33.0	K, J	1.0 MHz/1.0V rms	12.0	1.00	0.310
1812SDF-470	470	47.0	K, J	1.0 MHz/1.0V rms	10.0	1.10	0.280
1812SDF-680	680	68.0	K, J	1.0 MHz/1.0V rms	8.4	1.07	0.220
1812SDF-101	101	100	K, J	1.0 MHz/1.0V rms	6.8	2.20	0.190
1812SDF-151	151	150	K, J	1.0 MHz/1.0V rms	5.5	3.50	0.130
1812SDF-221	221	220	K, J	1.0 MHz/1.0V rms	4.5	4.00	0.110
1812SDF-331	331	330	K, J	1.0 MHz/1.0V rms	3.6	6.80	0.100
1812SDF-471	471	470	K, J	1.0 MHz/1.0V rms	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:

1. Tolerance: J = ± 5%, K = ± 10%, M = ± 20%.
2. Operating temperature: -25°C TO +85°C.
3. Electrical specifications at +25°C.
4. Inductance measured on the HP4284A LCR meter
5. DCR measured on the 502BC milli-ohm meter.
6. Inductance drops no more than 10% at rated current.
7. Temperature rises  $\Delta t < 20^\circ\text{C}$  (Typical) at rated current.
8. Suitable for IR re-flows soldering; Tape and reel packing.
9. **Murata P/N LQH43CN series compatible.**
10. **RoHS** compliant.

### D. Applications:

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

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