



# Frontier Electronics Corp.

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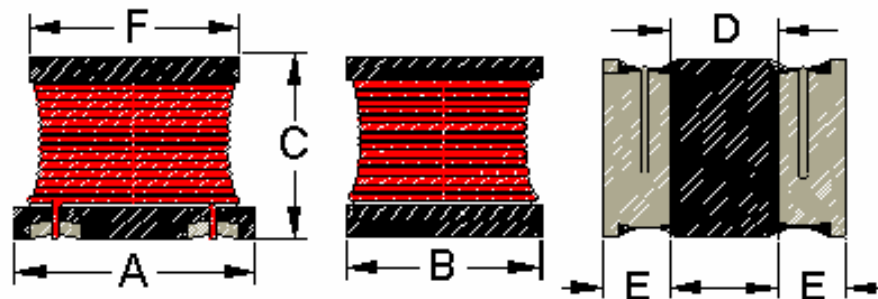
## SMD Square Drum Ferrite-core Inductors—1206SDF series

### A. Electrical specifications:

Part No.	Mark	L (uH)	Test Freq.	SRF Min (MHz)	DCR (Ω)	IDC Max. (mA)
1206SDF-R12	R12	0.12 ± 20%	1.0 MHz/1.0V rms	250	0.08 ± 40%	970
1206SDF-R22	R22	0.22 ± 20%	1.0 MHz/1.0V rms	250	0.10 ± 40%	850
1206SDF-R47	R47	0.47 ± 20%	1.0 MHz/1.0V rms	180	0.15 ± 40%	700
1206SDF-1R0	1R0	1.0 ± 20%	1.0 MHz/1.0V rms	100	0.28 ± 30%	510
1206SDF-2R2	2R2	2.2 ± 20%	1.0 MHz/1.0V rms	50	0.41 ± 30%	430
1206SDF-4R7	4R7	4.7 ± 20%	1.0 MHz/1.0V rms	31	0.65 ± 30%	340
1206SDF-100	100	10 ± 10%	1.0 MHz/1.0V rms	20	1.30 ± 30%	230
1206SDF-220	220	22 ± 10%	1.0 MHz/1.0V rms	14	3.00 ± 30%	160
1206SDF-470	470	47 ± 10%	1.0 MHz/1.0V rms	10	8.00 ± 30%	100
1206SDF-101	101	100 ± 10%	1.0 MHz/1.0V rms	7	12.0 ± 30%	80

### B. Mechanical dimensions: (Unit: mm)

SERIES	A	B	C	D	E	F	Type
1206SDF	3.2 ± 0.30	1.6 ± 0.20	1.8 ± 0.25	1.3 ± 0.20	0.9 ± 0.30	2.5 Ref.	2



Type 2

### C. Feature:

1. Operating temperature: -25°C TO +85°C.
2. Electrical specifications at +25°C.
3. Inductance measured on the HP4284A LCR meter.
4. DCR measured on the 502BC milli-ohm meter.
5. Inductance drops no more than 10% at rated I sat.
6. Temperature rises  $\Delta t < 15^\circ\text{C}$  (Typical) at rated I rms.
7. Suitable for IR re-flows soldering.
8. Tape and reel packing.
9. **Murata P/N LQH31CN series compatible.**
10. **RoHS** compliant.

### F. Applications:

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

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