



# Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065

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

E-mail: [frontiersales@frontierusa.com](mailto:frontiersales@frontierusa.com)

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

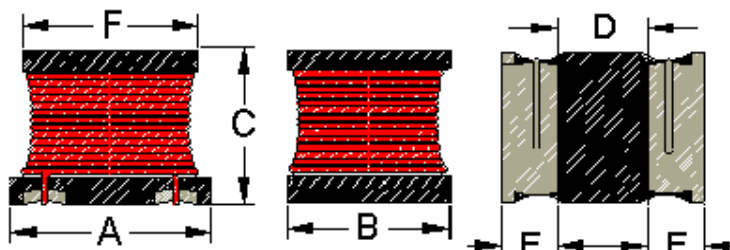
## SMD Square Drum Ferrite-core Inductors—1210SDF series

### A. Electrical specifications:

Part No.	Mark	L (uH)	Tolerance	Test Freq. (@ 0.1V rms.)	SRF Min (MHz)	DCR Max. (Ω)	IDC Max. (mA)
1210SDF-1R0	1R0	1.0	M	100 KHz	180.0	0.078	1000
1210SDF-2R2	2R2	2.2	M	100 KHz	170.0	0.126	790
1210SDF-4R7	4R7	4.7	M, K	100 KHz	98.0	0.195	650
1210SDF-100	100	10	M, K	100 KHz	77.0	0.572	450
1210SDF-150	150	15	M, K	100 KHz	64.0	0.754	300
1210SDF-220	220	22	M, K	100 KHz	32.0	0.923	250
1210SDF-470	470	47	K, J	100 KHz	24.0	2.20	170
1210SDF-101	101	100	K, J	100 KHz	18.0	4.55	100
1210SDF-221	221	220	K, J	100 KHz	11.0	10.92	70
1210SDF-331	331	330	K, J	100 KHz	10.5	13.00	60
1210SDF-391	391	390	K, J	100 KHz	9.0	22.10	60
1210SDF-471	471	470	K, J	100 KHz	7.5	24.70	60
1210SDF-561	561	560	K, J	100 KHz	5.5	28.60	60

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

SERIES	A	B	C	D	E	F	Type
1210SDF	3.2 ± 0.30	2.5 ± 0.20	2.0 ± 0.25	1.3 ± 0.20	0.9 ± 0.30	2.3 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 I sat.
7. Temperature rises  $\Delta t < 15^\circ\text{C}$  (Typical) at rated I rms.
8. Suitable for IR re-flows soldering.
9. Tape and reel packing.
10. **Murata P/N LQH32CN\_53 series compatible.**
11. **RoHS** compliant.

### D. Applications:

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

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