



Frontier Electronics Corp.

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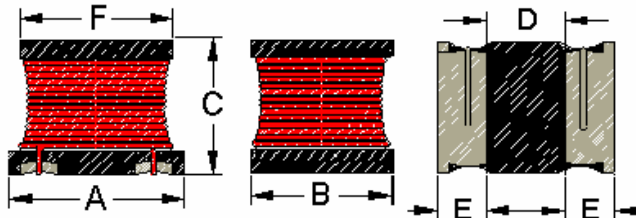
SMD Square Drum Ferrite-core Inductors—1210SDF series

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	1.0 MHz	96.0	0.078	1000
1210SDF-2R2	2R2	2.2	M	1.0 MHz	64.0	0.126	790
1210SDF-3R3	3R3	3.3	M	1.0 MHz	50.0	0.165	500
1210SDF-4R7	4R7	4.7	M	1.0 MHz	43.0	0.195	450
1210SDF-6R8	6R8	6.8	M	1.0 MHz	36.0	0.330	400
1210SDF-100	100	10	M	1.0 MHz	26.0	0.572	300
1210SDF-220	220	22	M, K	1.0 MHz	19.0	0.923	250
1210SDF-470	470	47	M, K	1.0 MHz	12.0	1.69	170
1210SDF-101	101	100	K, J	1.0 MHz	8.0	4.55	100
1210SDF-151	151	150	K, J	1.0 MHz	7.0	9.10	80
1210SDF-221	221	220	K, J	1.0 MHz	5.5	10.92	70
1210SDF-331	331	330	K, J	1.0 MHz	4.5	13.00	60
1210SDF-391	391	390	K, J	1.0 MHz	4.0	22.10	60
1210SDF-471	471	470	K, J	1.0 MHz	3.7	24.70	60
1210SDF-561	561	560	K, J	1.0 MHz	3.4	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: -40°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. Above part numbers on the table is for “LEADED” parts; for **RoHS** parts, please add “-LFR” at the end of our Part number.

D. Applications:

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

★ Special specifications are available for customer’s requirement.