



Frontier Electronics Corp.

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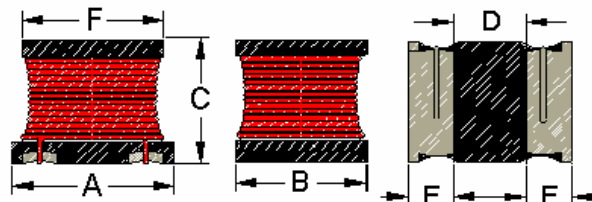
SMD Square Drum Ferrite-core Inductors—2220SDF series

A. Electrical specifications:

Part No.	Mark	L (uH)	Tol.	Test Freq.	SRF Min (MHz)	DCR (mΩ) Max.	IDC Max. (A)
2220SDF-R12	R12	0.12	M	1.0 MHz/1.0V rms	450	0.0098	6.00
2220SDF-R27	R27	0.27	M	1.0 MHz/1.0V rms	300	0.0140	5.30
2220SDF-R47	R47	0.47	M	1.0 MHz/1.0V rms	250	0.0182	4.80
2220SDF-1R0	1R0	1.00	M	1.0 MHz/1.0V rms	150	0.0272	4.00
2220SDF-1R5	1R5	1.50	M	1.0 MHz/1.0V rms	110	0.0310	3.70
2220SDF-2R2	2R2	2.20	M	1.0 MHz/1.0V rms	80.0	0.0410	3.20
2220SDF-3R3	3R3	3.30	M	1.0 MHz/1.0V rms	40.0	0.0504	2.90
2220SDF-4R7	4R7	4.70	M	1.0 MHz/1.0V rms	30.0	0.0574	2.70
2220SDF-6R8	6R8	6.80	M	1.0 MHz/1.0V rms	25.0	0.1040	2.00
2220SDF-100	100	10.0	M, K	1.0 MHz/1.0V rms	20.0	0.1300	1.70
2220SDF-150	150	15.0	M, K	1.0 MHz/1.0V rms	17.0	0.2100	1.40
2220SDF-220	220	22.0	M, K	1.0 MHz/1.0V rms	15.0	0.2660	1.20
2220SDF-330	330	33.0	M, K	1.0 MHz/1.0V rms	12.0	0.4480	0.90
2220SDF-470	470	47.0	M, K	1.0 MHz/1.0V rms	10.0	0.5600	0.80
2220SDF-680	680	68.0	M, K	1.0 MHz/1.0V rms	7.60	0.9380	0.64
2220SDF-101	101	100	M, K	100 KHz/1.0V rms	6.50	1.204	0.56
2220SDF-151	151	150	M, K	100 KHz/1.0V rms	5.00	2.660	0.42
2220SDF-221	221	220	M, K	100 KHz/1.0V rms	4.00	3.360	0.32
2220SDF-331	331	330	M, K	100 KHz/1.0V rms	3.10	6.160	0.27
2220SDF-471	471	470	M, K	100 KHz/1.0V rms	2.40	7.560	0.24
2220SDF-681	681	680	M, K	100 KHz/1.0V rms	1.90	11.34	0.19
2220SDF-102	102	1000	M, K	10 KHz/1.0V rms	1.70	14.42	0.15
2220SDF-222	222	2200	M, K	10 KHz/1.0V rms	1.20	30.10	0.10
2220SDF-472	472	4700	M, K	10 KHz/1.0V rms	0.80	61.04	0.07
2220SDF-103	103	10000	M, K	10 KHz/1.0V rms	0.50	140.0	0.05

B. Mechanical dimensions: (Unit: mm)

SERIES	A	B	C	D	E	F	Type
2220SDF	5.7 ± 0.30	5.0 ± 0.30	4.7 ± 0.30	1.7 (Min.)	1.3 (Min.)	5.0 Ref.	2



Type: 2

C. Feature:

1. Tolerance: M: ±20%, K: ± 10%.
2. Operating temperature: -25°C TO +85°C; Electrical specifications at +25°C.
3. Inductance measured on the HP4284A LCR meter; DCR measured on the 502BC milli-ohm meter.
4. Inductance drops no more than 10% at rated I sat; Temperature rises $\Delta t < 15^\circ\text{C}$ (Typical) at rated I rms.
5. Suitable for IR re-flows soldering; Tape and reel packing.
6. **Murata P/N LQH55DN series compatible.**
7. **RoHS** compliant.

D. Applications:

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

★ Special specifications are available for customer's requirement.