2220SDF Series – SMD SQUARE DRUM FERRITE-CORE INDUCTORS

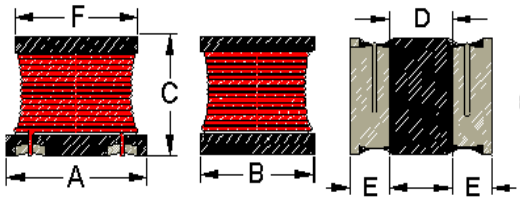
Rev. A

A. Electrical Specifications:

Part No.	Mark	L (uH)	Tol.	Test Freq.	SRF Min (MHz)	DCR (Ω) 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. Dimensions: mm (Inch)

SERIES	A	B	C	D	E	F	Type
2220SDF	5.7 (0.224)	5.0 (0.197)	4.7 (0.185)	1.7 (0.067)	1.3 (0.051)	5.0 (0.197)	2
Tol	± 0.30 (0.012)	± 0.30 (0.012)	± 0.30 (0.012)	Min.	Min.	Ref.	



Type 2

C. General Information:

1. P/N: 2220SDF-xxx_: “2220SDF” = Type, “xxx” = Inductance, “_” = Tolerance.
2. Tolerance “_” : M: ±20%, K: ± 10%.
3. Operating temperature: -25ºC to +85ºC; Electrical specifications at +25ºC.
4. Inductance measured on the HP4284A LCR meter; DCR measured on the 502BC milli-ohm meter.
5. Inductance drops no more than 10% at rated I sat; Temperature rises Δ t < 15ºC (typical) at rated I rms.
6. Inductance and Current Range: From 0.12 uH (6000 mA) to 10000 uH (50 mA)
7. SRF: From 0.5 MHz to 450 MHz
8. Suitable for IR re-flows soldering; Tape and reel packing.
9. MSL: Level 1.

D. Applications:

1. Power supply line chokes.
2. DC-DC Converters.
3. Notebooks.
4. Filters.
5. Telecommunication devices.

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