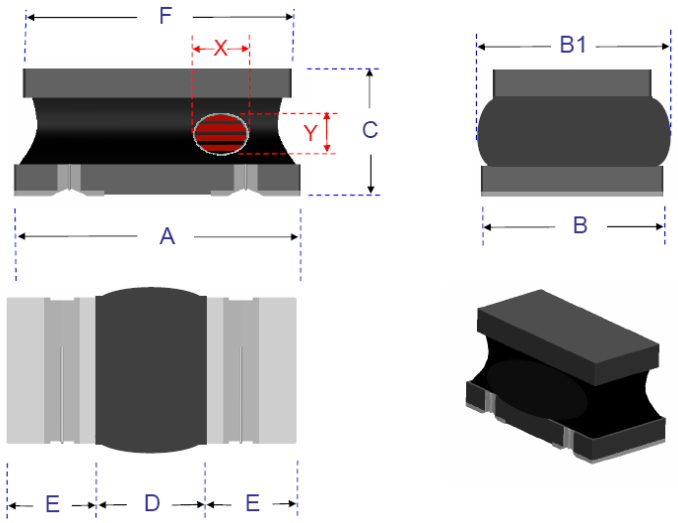
A. Electrical Specifications:

Part No.	Mark	L (uH)	Tolerance	Test Condition	SRF Typ. (MHz)	DCR Max. (Ω)	IDC Max. (mA)
1206SDFC-R12_	R12	0.12	M	1.0 MHz / 0.1 V	250	0.112	970
1206SDFC-R22_	R22	0.22	M	1.0 MHz / 0.1 V	250	0.140	850
1206SDFC-R39_	R39	0.39	M	1.0 MHz / 0.1 V	185	0.259	330
1206SDFC-R47_	R47	0.47	M	1.0 MHz / 0.1 V	180	0.210	700
1206SDFC-R68_	R68	0.68	M	1.0 MHz / 0.1 V	150	0.250	600
1206SDFC-1R0_	1R0	1.0	M	1.0 MHz / 0.1 V	100	0.364	510
1206SDFC-2R2_	2R2	2.2	M	1.0 MHz / 0.1 V	50	0.533	430
1206SDFC-3R3_	3R3	3.3	M	1.0 MHz / 0.1 V	40	0.700	600
1206SDFC-4R7_	4R7	4.7	K, M	1.0 MHz / 0.1 V	31	0.845	340
1206SDFC-6R8_	6R8	6.8	K, M	1.0 MHz / 0.1 V	28	1.350	500
1206SDFC-100_	100	10	K, M	1.0 MHz / 0.1 V	20	1.690	230
1206SDFC-220_	220	22	K, M	1.0 MHz / 0.1 V	14	3.900	160
1206SDFC-330_	330	33	K, M	1.0 MHz / 0.1 V	12	4.700	130
1206SDFC-470_	470	47	K, M	1.0 MHz / 0.1 V	10	10.40	100
1206SDFC-101_	101	100	K, M	1.0 MHz / 0.1 V	7	15.60	80

B. Dimensions: mm(Inch)

SERIES	Part dimension							Voids dimension		Type
	A	B	B1	C	D	E	F	X	Y	
1206SDFC	3.2 (0.126)	1.6 (0.063)	1.6 (0.063)	1.8 (0.071)	1.3 (0.051)	0.9 (0.035)	2.5 (0.098)	< ½ of A	N/A	3
Tol	± 0.30 (0.012)	± 0.20 (0.008)	± 0.35 (0.014)	± 0.25 (0.010)	± 0.20 (0.008)	± 0.30 (0.012)	Ref.			



Type 3 (with epoxy coating over windings)

C. General Information:

1. P/N: 1206SDFC-xxx_: "1206SDFC" = Type, "xxx" = Inductance, "_" = Tolerance.
2. Tolerance "_" : K = ± 10%, M = ± 20%.
3. The part was protected by epoxy coating over the windings.
4. Operating temperature: -25ºC to +85ºC.
5. Electrical specifications at +25ºC.
6. Inductance measured on the HP4284A LCR meter.
7. DCR measured on the 502BC milliohm meter.
8. I DC: Inductance drops no more than 10% at rated current or the $\Delta t \leq 40^{o}C$.
9. Temperature rise $\Delta t < 40^{o}C$ (Typical) at rated current and room temperature 20ºC.
10. Inductance and Current Range: From 0.12 uH (970 mA) to 100 uH (80 mA)
11. SRF: From 3.4 MHz to 96 MHz
12. Suitable for IR re-flows soldering.
13. Tape and reel packing.
14. MSL: Level 1.

D. Applications:

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