



SMTSDR SERIES

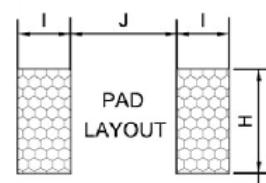
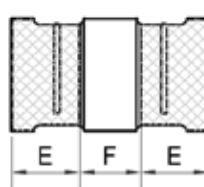
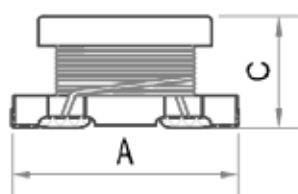
MINIATURE SMD CHIP CHOKE COILS

Applications :

- Pagers, Cordless phone.
- High Freq. Communication Products.
- Personal computers.
- Disk Drives and computer peripherals.
- DC power supply circuits.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C	E Min.	F Min.	H	I	J
SMTSDR322515	3.2±0.3	2.5±0.2	1.55±0.3	0.7	0.7	2.0	1.5	1.0
SMTSDR321618C	3.2±0.3	1.6±0.2	1.8±0.3	0.7	0.7	1.5	1.5	1.0
SMTSDR322520(C)	3.2±0.3	2.5±0.2	2.0±0.3	0.7	0.7	2.0	1.5	1.0
SMTSDR453226(C)	4.5±0.3	3.2±0.2	2.6±0.3	1.0	1.0	3.0	2.0	1.2
SMTSDR575047C	5.7±0.3	5.0±0.3	4.7±0.3	1.3	1.7	5.0	2.0	2.0

Features :

- These miniature chip inductors wound on a special ferrite core.
- SMTSDR322520 / 453226 / 322515 are high Q value at high frequencies and low DC resistance.
- SMTSDR321618C / 322520C / 453226C / 565047C are low DC resistance, high current capacity, and high impedance characteristics. They are excellent for use as choke coil in DC power supply circuits.

Characteristics :

- Rated Current: It is either the inductance is 10% lower than its initial value in DC. saturation characteristics or temperature raise becomes $\Delta T=20^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$), whichever is lower.
- Operating temp. : -30°C to 105°C .

Product identification :

SMT SDR 4 5 3 2 2 6 C - 1 0 1 K
 (1) (2) (3) (4) (5)

- (1) Type : **Surface Mounting Type**.
 (2) Style : **SDR** Type core, **L=4.5mm W=3.2 Ht=2.6**.
 (3) **C**: for Choke use, No **C**: for general use.
 (4) Inductance : **101** for **100uH**.
 (5) Inductance tolerance : **J** : $\pm 5\%$; **K** : $\pm 10\%$; **M** : $\pm 20\%$.

Test equipments :

- Inductance measured at 0Adc on HP 4284A LCR meter or equivalent.
- DCR measured on Chroma 16502 micro-ohmmeter or equivalent.
- Electrical specifications at 25°C .





● **SMTSDR321618C / 322520C / 453226C series**

Part No.	Inductance L (μ H)	Tolerance ($\pm$ %)	Test Freq. (MHz)	DCR (Ω) Max.	SRF (MHz) Min.	Rated Current (mA) Max.
SMTSDR321618C -R22□	0.22	M	1MHz	0.140	250	850
SMTSDR321618C -R47□	0.47	M	1MHz	0.210	180	700
SMTSDR321618C -1R0□	1.0	M	1MHz	0.364	100	510
SMTSDR321618C -2R2□	2.2	M	1MHz	0.533	50	430
SMTSDR321618C -4R7□	4.7	M,K	1MHz	0.845	31	340
SMTSDR321618C -100□	10	K,J	1MHz	1.690	20	230
SMTSDR321618C -220□	22	K,J	1MHz	3.900	14	160
SMTSDR321618C -470□	47	K,J	1MHz	10.40	10	100
SMTSDR321618C -101□	100	K,J	1MHz	15.60	7	80
SMTSDR322520C -1R0□	1.0	M	1MHz	0.078	100	1000
SMTSDR322520C -2R2□	2.2	M	1MHz	0.126	64	790
SMTSDR322520C -4R7□	4.7	M	1MHz	0.195	43	450
SMTSDR322520C -100□	10	M	1MHz	0.572	26	300
SMTSDR322520C -220□	22	M,K	1MHz	0.923	19	250
SMTSDR322520C -470□	47	M,K	1MHz	1.69	12	170
SMTSDR322520C -101□	100	K,J	1MHz	4.55	8	100
SMTSDR322520C -221□	220	K,J	1MHz	10.92	5.5	70
SMTSDR322520C -331□	330	K,J	1MHz	13.00	4.5	60
SMTSDR322520C -391□	390	K,J	1MHz	22.10	4	60
SMTSDR322520C -471□	470	K,J	1MHz	24.70	3.7	60
SMTSDR322520C -561□	560	K,J	1MHz	28.60	3.4	60
SMTSDR453226C -1R0□	1.0	M	1MHz	0.08	100	1080
SMTSDR453226C -1R5□	1.5	M	1MHz	0.09	85	1000
SMTSDR453226C -2R2□	2.2	M	1MHz	0.11	60	900
SMTSDR453226C -3R3□	3.3	M	1MHz	0.13	47	800
SMTSDR453226C -4R7□	4.7	M,K	1MHz	0.15	35	750
SMTSDR453226C -6R8□	6.8	M,K	1MHz	0.20	30	720
SMTSDR453226C -100□	10	K,J	1MHz	0.24	23	650
SMTSDR453226C -150□	15	K,J	1MHz	0.32	20	570
SMTSDR453226C -220□	22	K,J	1MHz	0.60	15	420
SMTSDR453226C -330□	33	K,J	1MHz	1.0	12	310
SMTSDR453226C -470□	47	K,J	1MHz	1.1	10	280
SMTSDR453226C -680□	68	K,J	1MHz	1.7	8.4	220
SMTSDR453226C -101□	100	K,J	1MHz	2.2	6.8	190
SMTSDR453226C -151□	150	K,J	1MHz	3.5	5.5	130
SMTSDR453226C -221□	220	K,J	1MHz	4.0	4.5	110
SMTSDR453226C -331□	330	K,J	1MHz	6.8	3.6	100
SMTSDR453226C -471□	470	K,J	1MHz	8.5	3.0	90

