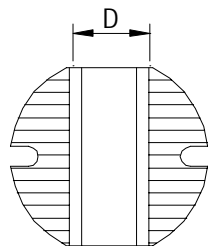
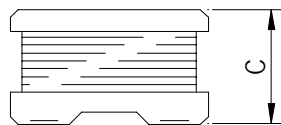
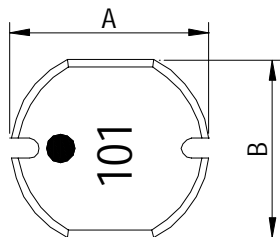




SMD Power Inductor

SR0302/SR0403/SR0502/SR0503 Series

CONFIGURATION & DIMENSIONS : (m/m)



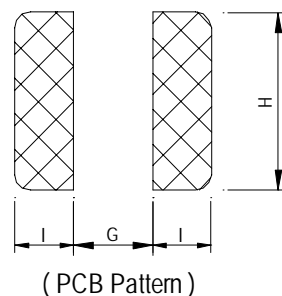
Glazing terminal patent
Taiwan : #140137 / #101212
USA : #US6197434 B1
China : #ZL992011361

● FEATURES

Excellent solderability and high heat resistance
Excellent terminal strength construction
Packed in embossed carrier tape and can be used by automatic mounting machine

● APPLICATIONS

Power supply for VCR, OA equipment, LCD television set, notebook, DC to DC converters, DC to AC inverters etc.



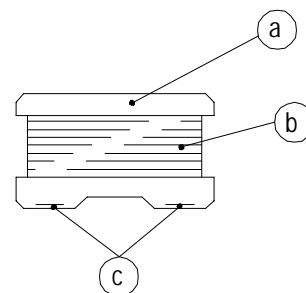
Series	A	B	C	D	G (ref.)	H (ref.)	I (ref.)
SR0302	3.00 ± 0.3	2.80 ± 0.3	2.50 ± 0.3	0.90 typ.	0.80	3.00	1.40
SR0403	4.50 ± 0.3	4.00 ± 0.3	3.20 ± 0.3	1.50 typ.	1.50	4.50	1.80
SR0502	5.00 ± 0.3	4.50 ± 0.3	2.00 ± 0.15	2.00 ref.	1.90	5.00	1.80
SR0503	5.00 ± 0.3	4.50 ± 0.3	3.00 ± 0.3	2.00 ref.	1.90	5.00	1.80

SCHEMATIC DIAGRAM :



MATERIALS :

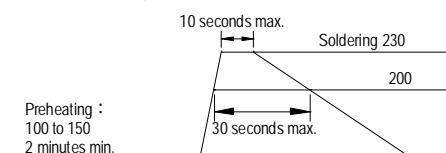
- a . Core : Ferrite DR core
- b . Wire : Enamelled copper wire
- c . Terminal : Ag + Ni + Sn / Pb



GENERAL SPECIFICATION :

- a . Storage temp. : -40 ----+125
- b . Operating temp. : -40 ----+105
- c . Resistance to solder heat : 260 .10 secs.

Recommended Soldering Conditions
Reflow Solderings



DWG No.	Inductance (μ H)	Q (ref.)	Test Freq.		SRF (typ.)	RDC (max.)	I _{rms} (A) $\Delta T = 40^{\circ}\text{C}$ (max.)	I _{sat} (A) $\Delta L / L_0 A = 10\%$ (typ.)
			L (Hz)/0.1V	Q (MHz)				
SR03021R0MS	1.0 \pm 20%	20	100K	7.96	125.0	0.06	2.100	2.700
SR03021R2MS	1.2 \pm 20%	22	100K	7.96	100.0	0.07	2.000	2.500
SR03021R5MS	1.5 \pm 20%	23	100K	7.96	95.0	0.07	1.900	2.300
SR03021R8MS	1.8 \pm 20%	23	100K	7.96	85.0	0.08	1.800	2.000
SR03022R2MS	2.2 \pm 20%	22	100K	7.96	75.0	0.09	1.650	1.850
SR03022R7MS	2.7 \pm 20%	22	100K	7.96	72.0	0.10	1.500	1.700
SR03023R3MS	3.3 \pm 20%	23	100K	7.96	68.0	0.11	1.400	1.600
SR03023R9MS	3.9 \pm 20%	24	100K	7.96	50.0	0.12	1.300	1.500
SR03024R7MS	4.7 \pm 20%	18	100K	7.96	45.0	0.15	1.200	1.350
SR03025R6MS	5.6 \pm 20%	18	100K	7.96	42.0	0.16	1.100	1.300
SR03026R8MS	6.8 \pm 20%	18	100K	7.96	40.0	0.18	1.000	1.200
SR03028R2MS	8.2 \pm 20%	16	100K	7.96	35.0	0.20	0.900	1.050
SR0302100MS	10.0 \pm 20%	18	100K	2.52	34.0	0.25	0.800	0.900
SR0302120MS	12.0 \pm 20%	15	100K	2.52	33.0	0.28	0.750	0.850
SR0302150MS	15.0 \pm 20%	20	100K	2.52	32.0	0.40	0.650	0.800
SR0302180MS	18.0 \pm 20%	18	100K	2.52	28.0	0.46	0.580	0.750
SR0302220MS	22.0 \pm 20%	23	100K	2.52	22.0	0.66	0.520	0.650
SR0302270MS	27.0 \pm 20%	23	100K	2.52	20.0	0.75	0.480	0.550
SR0302330KS	33.0 \pm 10%	20	100K	2.52	18.0	0.85	0.420	0.500
SR0302390KS	39.0 \pm 10%	24	100K	2.52	18.0	1.12	0.380	0.450
SR0302470KS	47.0 \pm 10%	23	100K	2.52	17.0	1.27	0.360	0.400
SR0302560KS	56.0 \pm 10%	18	100K	2.52	16.0	1.45	0.340	0.350
SR0302680KS	68.0 \pm 10%	24	100K	2.52	14.0	1.85	0.300	0.320
SR0302820KS	82.0 \pm 10%	24	100K	2.52	12.0	2.10	0.280	0.300
SR0302101KS	100.0 \pm 10%	40	100K	0.796	10.0	2.85	0.260	0.280
SR0302121KS	120.0 \pm 10%	40	100K	0.796	10.0	3.20	0.220	0.250
SR0302151KS	150.0 \pm 10%	38	100K	0.796	9.0	4.60	0.200	0.230
SR0302181KS	180.0 \pm 10%	45	100K	0.796	8.5	5.00	0.185	0.210
SR0302221KS	220.0 \pm 10%	40	100K	0.796	8.0	5.70	0.170	0.190
SR0302271KS	270.0 \pm 10%	45	100K	0.796	7.0	8.60	0.150	0.170
SR0302331KS	330.0 \pm 10%	40	100K	0.796	6.0	10.00	0.130	0.150
SR0302391KS	390.0 \pm 10%	40	100K	0.796	5.5	10.80	0.120	0.140
SR0302471KS	470.0 \pm 10%	42	100K	0.796	5.0	14.30	0.105	0.130
SR0302561KS	560.0 \pm 10%	43	100K	0.796	4.8	16.00	0.095	0.120
SR0302681KS	680.0 \pm 10%	43	100K	0.796	4.3	18.00	0.085	0.110
SR0302821KS	820.0 \pm 10%	45	100K	0.796	4.0	22.50	0.080	0.100
SR0302102KS	1000.0 \pm 10%	40	100K	0.252	3.2	26.00	0.070	0.090
SR0302122KS	1200.0 \pm 10%	40	100K	0.252	3.0	30.00	0.060	0.080

1). : Packaging information **A** : Bulk **B** : Taping Reel

SR0403 Series

DWG No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		RDC (Ω) max.	IDC (A) max.
			L	Q		
SR04031R0MS	1.0 \pm 20%	28	1K	7.960M	0.033	3.800
SR04031R4MS	1.4 \pm 20%	28	1K	7.960M	0.038	3.300
SR04031R8MS	1.8 \pm 20%	28	1K	7.960M	0.042	2.910
SR04032R2MS	2.2 \pm 20%	28	1K	7.960M	0.047	2.600
SR04032R7MS	2.7 \pm 20%	28	1K	7.960M	0.052	2.430
SR04033R3MS	3.3 \pm 20%	28	1K	7.960M	0.058	2.150
SR04033R9MS	3.9 \pm 20%	28	1K	7.960M	0.076	1.980
SR04034R7MS	4.7 \pm 20%	28	1K	7.960M	0.094	1.700
SR04035R6MS	5.6 \pm 20%	28	1K	7.960M	0.101	1.600
SR04036R8MS	6.8 \pm 20%	28	1K	7.960M	0.117	1.410
SR04038R2MS	8.2 \pm 20%	28	1K	7.960M	0.132	1.260
SR0403100MS	10.0 \pm 20%	28	1K	2.520M	0.182	1.150
SR0403120MS	12.0 \pm 20%	28	1K	2.520M	0.210	1.050
SR0403150MS	15.0 \pm 20%	28	1K	2.520M	0.235	0.920
SR0403180MS	18.0 \pm 20%	25	1K	2.520M	0.338	0.840
SR0403220MS	22.0 \pm 20%	25	1K	2.520M	0.378	0.760
SR0403270MS	27.0 \pm 20%	20	1K	2.520M	0.522	0.710
SR0403330KS	33.0 \pm 10%	20	1K	2.520M	0.540	0.640
SR0403390KS	39.0 \pm 10%	20	1K	2.520M	0.587	0.590
SR0403470KS	47.0 \pm 10%	20	1K	2.520M	0.844	0.540
SR0403560KS	56.0 \pm 10%	20	1K	2.520M	0.937	0.500
SR0403680KS	68.0 \pm 10%	20	1K	2.520M	1.117	0.460
SR0403820KS	82.0 \pm 10%	25	1K	2.520M	1.270	0.420
SR0403101KS	100.0 \pm 10%	35	1K	0.796M	1.900	0.350
SR0403121KS	120.0 \pm 10%	50	1K	0.796M	2.200	0.320
SR0403151KS	150.0 \pm 10%	50	1K	0.796M	3.400	0.260
SR0403181KS	180.0 \pm 10%	50	1K	0.796M	3.900	0.240
SR0403221KS	220.0 \pm 10%	50	1K	0.796M	4.400	0.220
SR0403271KS	270.0 \pm 10%	45	1K	0.796M	5.000	0.200
SR0403331KS	330.0 \pm 10%	40	1K	0.796M	6.000	0.170
SR0403391KS	390.0 \pm 10%	40	1K	0.796M	6.400	0.150
SR0403471KS	470.0 \pm 10%	50	1K	0.796M	7.000	0.130
SR0403561KS	560.0 \pm 10%	50	1K	0.796M	7.800	0.120
SR0403681KS	680.0 \pm 10%	40	1K	0.796M	8.600	0.110
SR0403821KS	820.0 \pm 10%	38	1K	0.796M	12.000	0.100
SR0403102KS	1000 \pm 10%	38	1K	0.252M	14.000	0.090

1). : Packaging information A Bulk B Taping Reel

SR0502 Series

DWG No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		RDC ($\frac{mV}{mA}$) max.	I _{rms} (mA)max. T=20	I _{sat} (mA)typ. L/LOA=10%
			L	Q			
SR0502101MS	100.0±20%	20	100K/0.1V	796K	1.5	270	265
SR0502121MS	120.0±20%	27	100K/0.1V	796K	1.7	252	245
SR0502151MS	150.0±20%	28	100K/0.1V	796K	2.2	237	232
SR0502181MS	180.0±20%	25	100K/0.1V	796K	2.5	220	215
SR0502221MS	220.0±20%	32	100K/0.1V	796K	3.2	204	200
SR0502271MS	270.0±20%	30	100K/0.1V	796K	3.9	190	182
SR0502331MS	330.0±20%	40	100K/0.1V	796K	5.0	174	165
SR0502391MS	390.0±20%	40	100K/0.1V	796K	5.4	156	148
SR0502471MS	470.0±20%	32	100K/0.1V	796K	6.5	140	130
SR0502561MS	560.0±20%	45	100K/0.1V	796K	8.8	125	120
SR0502681MS	680.0±20%	40	100K/0.1V	796K	10.5	110	105
SR0502821MS	820.0±20%	35	100K/0.1V	796K	12.0	97	95
SR0502102MS	1000.0±20%	42	100K/0.1V	252K	16.0	85	85
SR0502122MS	1200.0±20%	44	100K/0.1V	252K	18.5	76	80
SR0502152MS	1500.0±20%	40	100K/0.1V	252K	22.0	70	72
SR0502182MS	1800.0±20%	40	100K/0.1V	252K	28.5	65	68
SR0502222MS	2200.0±20%	40	100K/0.1V	252K	34.5	60	62
SR0502272MS	2700.0±20%	40	100K/0.1V	252K	40.0	53	55

1). : Packaging information **A** : Bulk **B** : Taping Reel

SR0503 Series

DWG No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		SRF (MHz) nom	RDC (Ω) max.	IDC (A) max.
			L	Q			
SR0503100MS	10.0 \pm 20%	20	1K	2.520M	30.00	0.13	1.300
SR0503120MS	12.0 \pm 20%	20	1K	2.520M	29.00	0.16	1.200
SR0503150MS	15.0 \pm 20%	20	1K	2.520M	27.00	0.19	1.050
SR0503180MS	18.0 \pm 20%	20	1K	2.520M	24.00	0.21	0.950
SR0503220MS	22.0 \pm 20%	20	1K	2.520M	22.00	0.28	0.900
SR0503270MS	27.0 \pm 20%	20	1K	2.520M	20.00	0.32	0.800
SR0503330KS	33.0 \pm 10%	15	1K	2.520M	17.50	0.38	0.700
SR0503390KS	39.0 \pm 10%	15	1K	2.520M	17.00	0.42	0.650
SR0503470KS	47.0 \pm 10%	20	1K	2.520M	14.00	0.60	0.600
SR0503560KS	56.0 \pm 10%	20	1K	2.520M	13.00	0.71	0.500
SR0503680KS	68.0 \pm 10%	20	1K	2.520M	12.00	0.76	0.450
SR0503820KS	82.0 \pm 10%	15	1K	2.520M	10.00	0.88	0.420
SR0503101KS	100.0 \pm 10%	40	1K	0.796M	8.50	1.60	0.400
SR0503121KS	120.0 \pm 10%	40	1K	0.796M	8.00	1.70	0.370
SR0503151KS	150.0 \pm 10%	40	1K	0.796M	7.20	2.00	0.330
SR0503181KS	180.0 \pm 10%	40	1K	0.796M	6.90	2.30	0.300
SR0503221KS	220.0 \pm 10%	35	1K	0.796M	6.20	2.50	0.250
SR0503271KS	270.0 \pm 10%	35	1K	0.796M	5.70	2.90	0.230
SR0503331KS	330.0 \pm 10%	30	1K	0.796M	5.30	3.30	0.210
SR0503391KS	390.0 \pm 10%	30	1K	0.796M	4.90	3.70	0.190
SR0503471KS	470.0 \pm 10%	30	1K	0.796M	4.60	4.90	0.180
SR0503561KS	560.0 \pm 10%	30	1K	0.796M	4.20	5.70	0.160
SR0503681KS	680.0 \pm 10%	30	1K	0.796M	3.90	7.50	0.140
SR0503821KS	820.0 \pm 10%	40	1K	0.796M	3.30	10.00	0.120
SR0503102KS	1000.0 \pm 10 %	40	1K	0.252M	3.10	11.50	0.110
SR0503122JS	1200.0 \pm 5%	40	1K	0.252M	3.00	12.00	0.063
SR0503152JS	1500.0 \pm 5%	40	1K	0.252M	2.40	13.00	0.059
SR0503182JS	1800.0 \pm 5%	40	1K	0.252M	2.20	15.00	0.055
SR0503222JS	2200.0 \pm 5%	40	1K	0.252M	2.30	22.00	0.053
SR0503272JS	2700.0 \pm 5%	40	1K	0.252M	2.10	26.00	0.050
SR0503332JS	3300.0 \pm 5%	40	1K	0.252M	1.90	38.00	0.045
SR0503392JS	3900.0 \pm 5 %	40	1K	0.252M	1.50	40.00	0.042
SR0503472JS	4700.0 \pm 5%	40	1K	0.252M	1.40	48.00	0.040
SR0503562JS	5600.0 \pm 5%	40	1K	0.252M	1.30	72.00	0.038
SR0503682JS	6800.0 \pm 5%	40	1K	0.252M	1.20	80.00	0.034
SR0503822JS	8200.0 \pm 5%	40	1K	0.252M	1.00	92.00	0.030
SR0503103JS	10000.0 \pm 5%	30	1K	79.60K	0.95	110.00	0.027
SR0503123JS	12000.0 \pm 5%	30	1K	79.60K	0.85	148.00	0.025
SR0503153JS	15000.0 \pm 5%	30	1K	79.60K	0.80	168.00	0.020

1). : Packaging information **A** : Bulk **B** : Taping Reel