

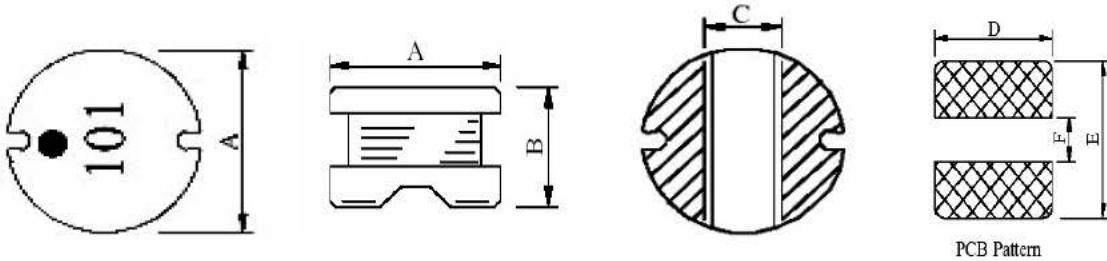
(IV) SMD POWER INDUCTORS

2. SSPR Series (Unshielded Type)



General Dimensions and Configuration

SHAPE:

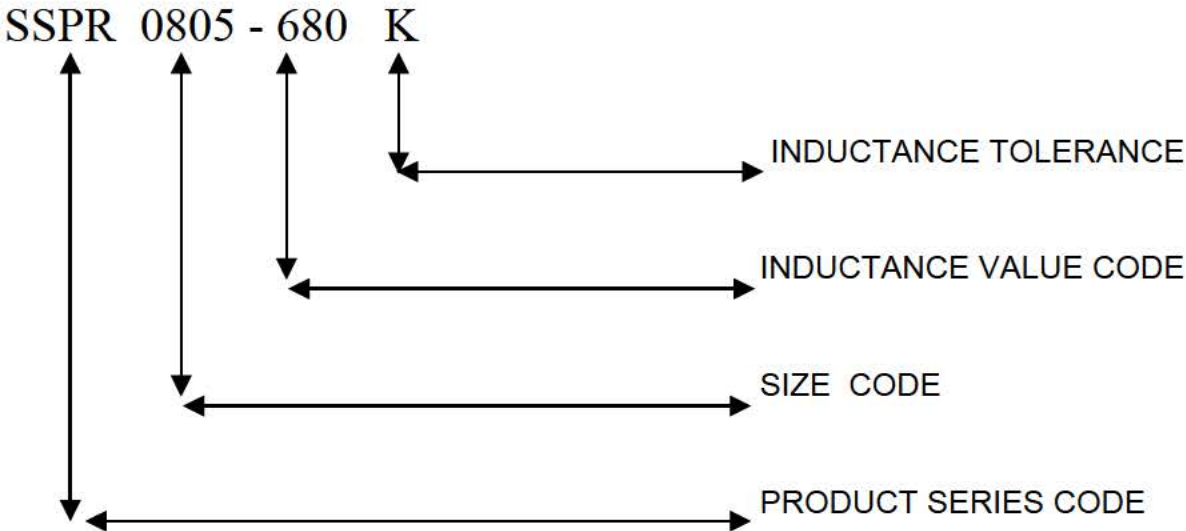


DIMENSIONS:

SERIES	A	B	C (ref.)	D (ref.)	E (ref.)	F (ref.)
SSPR0805	7.50±0.30	5.00±0.30	2.60	8.00	7.80	2.40

Remarks: Size in (m/m)

Part Numbering System



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Electrical Characteristics

DWG No.	Inductance (μ H)	Q ref.	Test Freq. (Hz)		SRF (MHz) nom.	RDC (Ω) max.	Isat (A) typ.	Irms (A) typ.
			L	Q				
SSPR0805-1R5M	1.5 \pm 20%	32	1k / 1V	7.960M	120.0	0.015	10.500	7.200
SSPR0805-2R5M	2.5 \pm 20%	32	1k / 1V	7.960M	70.0	0.020	8.200	5.900
SSPR0805-3R3M	3.3 \pm 20%	32	1k / 1V	7.960M	55.0	0.022	7.300	5.600
SSPR0805-3R9M	3.9 \pm 20%	32	1k / 1V	7.960M	45.0	0.024	6.500	5.200
SSPR0805-4R7M	4.7 \pm 20%	31	1k / 1V	7.960M	38.0	0.033	6.000	4.200
SSPR0805-5R6M	5.6 \pm 20%	31	1k / 1V	7.960M	34.0	0.035	5.500	4.000
SSPR0805-6R8M	6.8 \pm 20%	30	1k / 1V	7.960M	33.0	0.040	4.800	3.600
SSPR0805-8R2M	8.2 \pm 20%	29	1k / 1V	7.960M	30.0	0.050	4.300	3.400
SSPR0805-100M	10.0 \pm 20%	25	1k / 1V	2.520M	22.0	0.070	4.000	3.000
SSPR0805-120M	12.0 \pm 20%	25	1k / 1V	2.520M	20.0	0.080	3.700	2.750
SSPR0805-150M	15.0 \pm 20%	25	1k / 1V	2.520M	16.0	0.090	3.200	2.600
SSPR0805-180M	18.0 \pm 20%	20	1k / 1V	2.520M	15.0	0.100	3.000	2.500
SSPR0805-220M	22.0 \pm 20%	20	1k / 1V	2.520M	13.0	0.110	2.700	2.300
SSPR0805-270M	27.0 \pm 20%	20	1k / 1V	2.520M	12.0	0.120	2.500	2.200
SSPR0805-330K	33.0 \pm 10%	15	1k / 1V	2.520M	10.0	0.140	2.200	2.000
SSPR0805-390K	39.0 \pm 10%	15	1k / 1V	2.520M	9.5	0.160	2.000	1.900
SSPR0805-470K	47.0 \pm 10%	15	1k / 1V	2.520M	9.0	0.200	1.900	1.650
SSPR0805-560K	56.0 \pm 10%	15	1k / 1V	2.520M	8.5	0.240	1.700	1.500
SSPR0805-680K	68.0 \pm 10%	15	1k / 1V	2.520M	8.0	0.300	1.500	1.350
SSPR0805-820K	82.0 \pm 10%	12	1k / 1V	2.520M	7.0	0.370	1.400	1.250
SSPR0805-101K	100.0 \pm 10%	12	1k / 1V	0.796M	6.5	0.450	1.250	1.050
SSPR0805-121K	120.0 \pm 10%	12	1k / 1V	0.796M	5.6	0.480	1.150	1.000
SSPR0805-151K	150.0 \pm 10%	12	1k / 1V	0.796M	5.5	0.680	1.000	0.850
SSPR0805-181K	180.0 \pm 10%	12	1k / 1V	0.796M	5.0	0.770	0.900	0.700
SSPR0805-221K	220.0 \pm 10%	12	1k / 1V	0.796M	4.8	0.960	0.850	0.630
SSPR0805-271K	270.0 \pm 10%	12	1k / 1V	0.796M	4.5	1.110	0.750	0.600
SSPR0805-331K	330.0 \pm 10%	12	1k / 1V	0.796M	4.3	1.260	0.700	0.560
SSPR0805-391K	390.0 \pm 10%	12	1k / 1V	0.796M	4.0	1.770	0.650	0.500
SSPR0805-471K	470.0 \pm 10%	12	1k / 1V	0.796M	3.8	1.960	0.600	0.480
SSPR0805-561K	560.0 \pm 10%	30	1k / 1V	0.796M	3.7	2.500	0.550	0.420
SSPR0805-681K	680.0 \pm 10%	29	1k / 1V	0.796M	3.5	2.800	0.480	0.380
SSPR0805-821K	820.0 \pm 10%	28	1k / 1V	0.796M	3.2	4.000	0.450	0.320
SSPR0805-102K	1000.0 \pm 10%	27	1k / 1V	0.252M	3.0	4.500	0.400	0.300
SSPR0805-122K	1200.0 \pm 10%	28	1k / 1V	0.252M	2.6	6.800	0.370	0.230
SSPR0805-152K	1500.0 \pm 10%	27	1k / 1V	0.252M	2.4	8.000	0.330	0.220
SSPR0805-182K	1800.0 \pm 10%	30	1k / 1V	0.252M	1.6	9.200	0.300	0.210
SSPR0805-222K	2200.0 \pm 10%	29	1k / 1V	0.252M	1.5	10.000	0.270	0.200
SSPR0805-272K	2700.0 \pm 10%	31	1k / 1V	0.252M	1.4	11.800	0.250	0.190
SSPR0805-332K	3300.0 \pm 10%	28	1k / 1V	0.252M	1.2	16.500	0.220	0.170
SSPR0805-392K	3900.0 \pm 10%	28	1k / 1V	0.252M	1.1	18.000	0.210	0.160
SSPR0805-472K	4700.0 \pm 10%	30	1k / 1V	0.252M	1.0	21.000	0.190	0.150

- 1). Electrical specifications at 25°C
- 2). Isat base on Δ L / LOA=10% typ. (Approximately transient current)
- 3). Irms base on Temp. rise 40°C typ.
- 4). Operating temperature range : -40°C~+125°C.
- 5). Test equipment (Electrical specifications at 25°C) :
L: HP4284A LCR meter; DCR: Milli-ohm meter.

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Rating Curves

Inductance vs. DC Current

