

4. SPC Series (Shielded Type)

Applications

- Power supply for VTRs.
- Personal & Notebook computers.
- Smart Home Systems.
- Other various electronic appliances.

Features

- Directly connected electrode on ferrite core.
- With magnetic shielded against radiation.
- Flat bottom surface allows reliable mounting onto the board.
- High power, high saturation inductors.



Inductance and Rated Current ranges

Part Series	Inductances range	Rated Current range
* SPC62B	1.5~330 μ H	3.50~0.19A
* SPC64B	10~1000 μ H	1.35~0.14A
* SPC73	1.0~1000 μ H	7.97~0.16A
* SPC74	1.0~1000 μ H	8.00~0.18A
* SPC124	1.5~330 μ H	8.75~0.50A
* SPC125	1.3~1000 μ H	8.00~0.40A
* SPC127	1.0~1000 μ H	10.00~0.55A
* SPC127H	2.2~1000 μ H	25.50~1.14A
* SPC129	1.0~1000 μ H	17.00~0.76A

(Dimension data (Refer to Fig. 1))

Test equipment:

L: HP4284A or HP4285A LCR meter.

DCR: Milli-ohm meter.

Electrical specifications at 25 .

Characteristics

Rated DC current: The current when the inductance decreases to 75% (SPC127H: 70%) of its initial value or the actual current when the temperature of coil increases to $T=40$. ($T_a=25$)

Operating temperature range: -40 ~ $+125$.

Test Frequency:

SPC62B: 1.5 μ H~6.8 μ H @100KHz 0.25V ; 10 μ H~330 μ H @1KHz 0.25V

SPC64B: 10 μ H~1000 μ H @1KHz 0.25V

SPC73: 1.0 μ H~1000 μ H @1KHz 0.25V

SPC74: 1.0 μ H~1000 μ H @1KHz 0.25V

SPC124: 1.5 μ H~330 μ H @100KHz 0.25V

SPC125: 1.3 μ H~8.2 μ H @100KHz 0.25V ; 10 μ H~1000 μ H @1KHz 0.25V

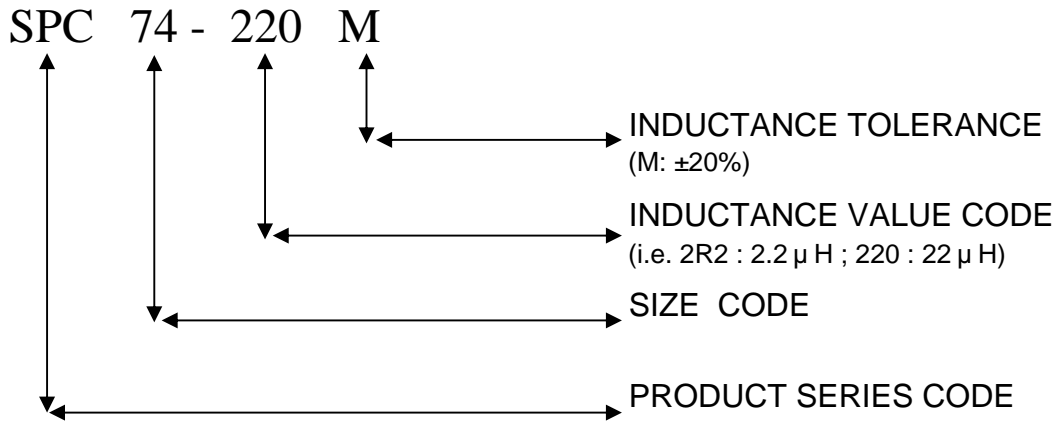
SPC127: 1.0 μ H~8.2 μ H @100KHz 0.25V ; 10 μ H~1000 μ H @1KHz 0.25V

SPC127H: 2.2 μ H~1000 μ H @100KHz 0.25V

SPC129: 1.0 μ H~8.2 μ H @100KHz 0.25V ; 10 μ H~1000 μ H @1KHz 0.25V

4. SPC Series (Shielded Type)

Part Numbering System



Dimensions (mm)

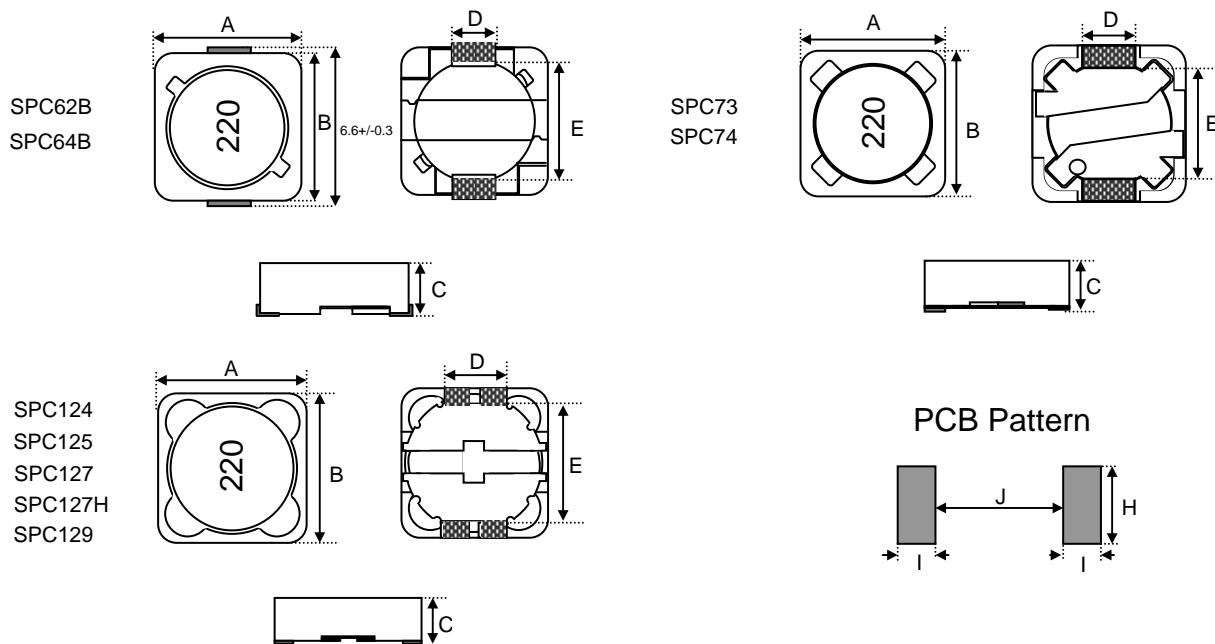


Fig. 1

Series	A	B	C max	D	E	H	I	J
SPC62B	6.2±0.3	5.9±0.3	3.0	1.5	4.6	1.9	1.4	4.6
SPC64B	6.2±0.3	5.9±0.3	5.0	1.5	4.6	1.9	1.4	4.6
SPC73	7.3±0.2	7.3±0.2	3.4	1.5	5.0	2.2	1.6	4.8
SPC74	7.3±0.2	7.3±0.2	4.5	1.5	5.0	2.2	1.6	4.8
SPC124	12.0±0.3	12.0±0.3	4.5	5.0	7.6	5.4	2.9	7.0
SPC125	12.0±0.3	12.0±0.3	6.0	5.0	7.6	5.4	2.9	7.0
SPC127	12.0±0.3	12.0±0.3	8.0	5.0	7.6	5.4	2.9	7.0
SPC127H	12.0±0.5	12.0±0.5	8.0	5.0	7.6	5.4	2.9	7.0
SPC129	12.0±0.3	12.0±0.3	10.0	5.0	7.6	5.4	2.9	7.0

4. SPC Series (Shielded Type)

Electrical Characteristics

SPC 62B / 64B / 73 / 74 TYPE

Inductance value code	Tol.	L (µH)	DC Resistance () Max.				Rated DC Current (A) Max.			
			SPC62B	SPC64B	SPC73	SPC74	SPC62B	SPC64B	SPC73	SPC74
1R0	M	1.0	-	-	0.016	0.020	-	-	7.970	8.000
1R5	M	1.5	0.049	-	0.023	0.018	3.500	-	5.500	7.000
2R2	M	2.2	0.050	-	0.027	0.028	2.200	-	4.500	6.000
2R9	M	2.9	0.070	-	-	-	1.940	-	-	-
3R3	M	3.3	0.075	-	0.031	0.032	1.800	-	4.000	4.800
3R9	M	3.9	-	-	0.041	0.035	-	-	3.800	4.400
4R0	M	4.0	0.080	-	-	-	1.630	-	-	-
4R7	M	4.7	0.090	-	0.048	0.038	1.550	-	3.500	4.000
5R5	M	5.5	0.100	-	-	-	1.400	-	-	-
5R6	M	5.6	-	-	0.056	0.040	-	-	3.000	3.500
6R8	M	6.8	0.100	-	0.062	0.045	1.300	-	2.000	3.000
100	M	10	0.150	0.120	0.072	0.049	1.100	1.350	1.680	1.840
120	M	12	0.200	0.130	0.098	0.058	1.000	1.220	1.520	1.710
150	M	15	0.230	0.180	0.130	0.081	0.900	1.110	1.330	1.470
180	M	18	0.270	0.240	0.140	0.091	0.800	1.020	1.200	1.310
220	M	22	0.340	0.270	0.190	0.110	0.740	0.910	1.070	1.230
270	M	27	0.380	0.300	0.210	0.150	0.660	0.820	0.960	1.120
330	M	33	0.450	0.330	0.240	0.170	0.590	0.740	0.910	0.960
390	M	39	0.490	0.370	0.320	0.230	0.540	0.690	0.770	0.910
470	M	47	0.690	0.520	0.360	0.260	0.500	0.620	0.760	0.880
560	M	56	0.780	0.560	0.470	0.350	0.460	0.580	0.680	0.750
680	M	68	1.070	0.630	0.520	0.380	0.420	0.510	0.610	0.690
820	M	82	1.210	0.710	0.690	0.430	0.380	0.460	0.570	0.610
101	M	100	1.390	1.030	0.790	0.610	0.340	0.420	0.500	0.600
121	M	120	1.900	1.150	0.890	0.660	0.310	0.380	0.490	0.520
151	M	150	2.180	1.680	1.270	0.880	0.280	0.350	0.430	0.460
181	M	180	2.770	1.870	1.450	0.980	0.260	0.320	0.390	0.420
221	M	220	3.120	2.080	1.650	1.170	0.230	0.290	0.350	0.360
271	M	270	4.380	2.370	2.310	1.640	0.220	0.260	0.320	0.340
331	M	330	4.940	2.670	2.620	1.860	0.190	0.230	0.280	0.320
391	M	390	-	2.940	2.940	2.850	-	0.220	0.260	0.290
471	M	470	-	3.930	4.180	3.010	-	0.200	0.240	0.260
561	M	560	-	5.430	4.670	3.620	-	0.180	0.220	0.230
681	M	680	-	7.320	5.730	4.630	-	0.170	0.190	0.220
821	M	820	-	8.240	6.540	5.200	-	0.150	0.180	0.200
102	M	1000	-	9.260	9.440	6.000	-	0.140	0.160	0.180

Notes:

1. Test Frequency : 1 KHz, 0.25V
SPC62B: 1.5µH~6.8µH @100KHz 0.25V ; 10µH~330µH @1KHz 0.25V
2. Test equipment :
L/Q : HP4284A or HP4285A LCR meter
DCR: Milli-ohm meter.
3. Rated DC current: The current when the inductance decreases to 75% of its initial value or the actual current when the temperature of coil increases to T=40 .
4. Operating temperature range : -40 ~+125