

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

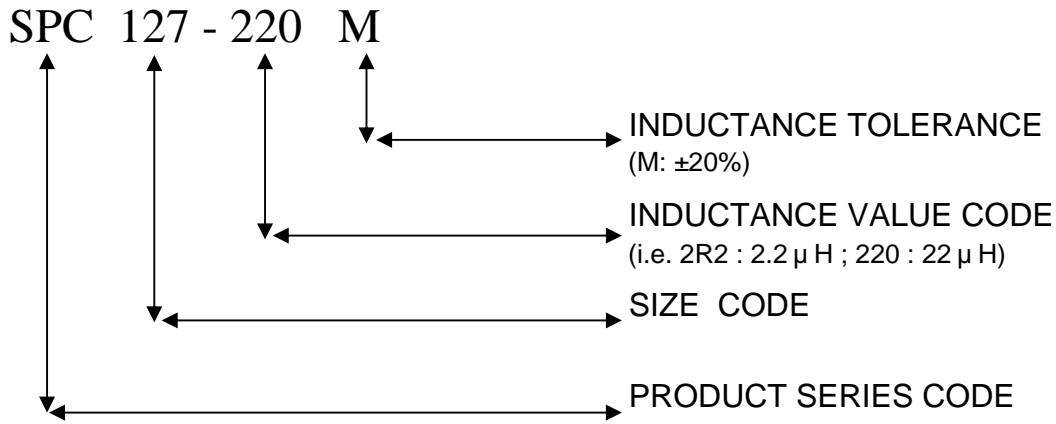
SPC127: 1.0 μ H~8.2 μ H @100KHz 0.25V ; 10 μ H~1000 μ H @1KHz 0.25V

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)

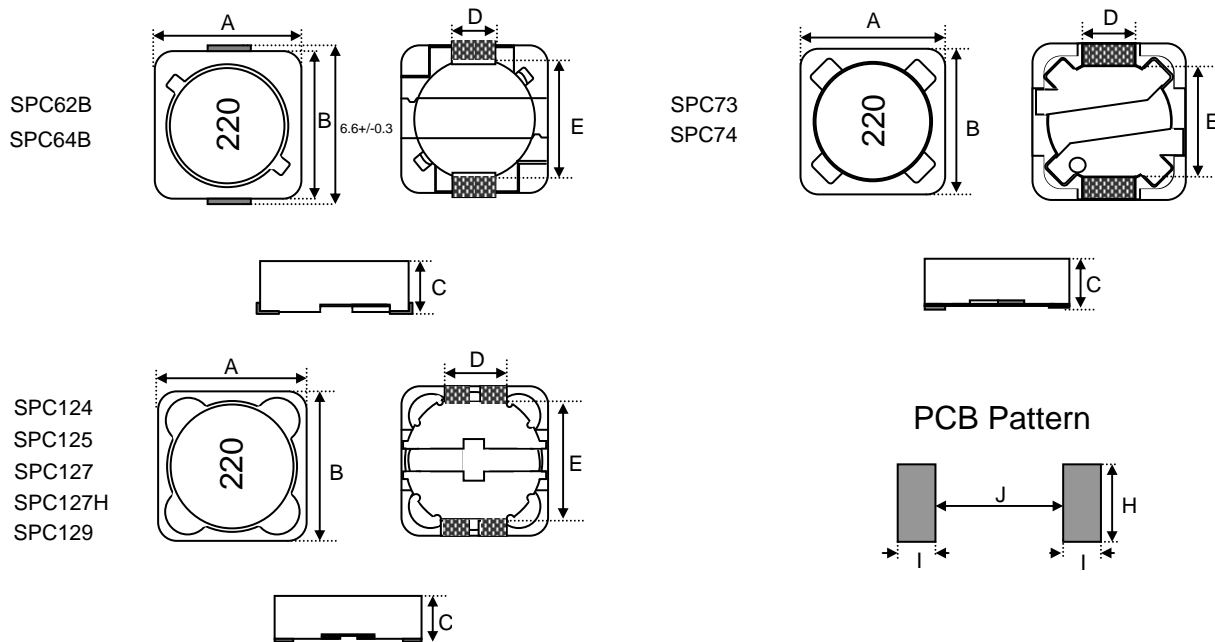


Fig. 1

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

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Electrical Characteristics

SPC 127 / 127H / 129 TYPE

Inductance value code	Tol.	L (μH)	DC Resistance (Ω) Max.			Rated DC Current (A) Max.		
			SPC127	SPC127H	SPC129	SPC127	SPC127H	SPC129
1R0	M	1.0	0.007	-	0.007	10.00	-	17.00
1R2	M	1.2	0.007	-	-	9.80	-	-
1R5	M	1.5	-	-	0.005	-	-	16.00
1R8	M	1.8	0.011	-	-	8.50	-	-
2R2	M	2.2	0.010	0.007	-	8.50	25.50	-
2R4	M	2.4	0.012	-	0.006	8.00	-	15.00
2R7	M	2.7	0.012	-	-	8.00	-	-
3R3	M	3.3	0.013	-	0.009	7.80	-	14.00
3R5	M	3.5	0.014	-	0.009	7.50	-	14.00
4R7	M	4.7	0.016	0.016	-	6.80	15.90	-
5R6	M	5.6	0.014	0.020	-	6.70	14.00	-
6R1	M	6.1	0.018	-	-	6.60	-	-
6R8	M	6.8	0.014	0.021	0.013	6.40	13.30	10.00
7R6	M	7.6	0.020	-	-	5.90	-	-
8R2	M	8.2	0.016	0.023	0.015	6.32	12.20	8.20
100	M	10	0.022	0.024	0.018	5.40	11.20	7.50
120	M	12	0.024	-	0.019	4.90	-	7.00
150	M	15	0.027	0.031	0.024	4.50	9.00	6.00
180	M	18	0.039	0.035	0.031	3.90	5.10	5.50
220	M	22	0.043	0.040	0.039	3.60	7.57	5.00
270	M	27	0.046	-	0.045	3.40	-	4.50
330	M	33	0.065	0.070	0.050	3.00	6.22	4.00
390	M	39	0.073	0.075	0.059	2.75	4.50	3.80
470	M	47	0.100	0.080	0.069	2.50	5.28	3.50
560	M	56	0.110	0.130	0.079	2.35	4.50	3.20
680	M	68	0.140	0.105	0.088	2.10	4.26	3.00
820	M	82	0.160	0.143	0.110	1.95	3.80	2.60
101	M	100	0.220	0.163	0.140	1.70	3.52	2.20
121	M	120	0.250	0.170	0.160	1.60	1.90	2.00
151	M	150	0.280	0.247	0.200	1.42	3.01	1.80
181	M	180	0.350	-	0.270	1.30	-	1.60
221	M	220	0.390	0.376	0.300	1.16	2.36	1.50
271	M	270	0.560	-	0.400	1.06	-	1.30
331	M	330	0.640	0.574	0.450	0.95	2.00	1.20
391	M	390	0.700	0.650	0.550	0.88	1.50	1.10
471	M	470	0.980	0.861	0.600	0.79	1.64	1.00
561	M	560	1.070	-	0.700	0.73	-	0.90
681	M	680	1.460	1.080	0.840	0.67	1.38	0.82
821	M	820	1.640	1.470	1.060	0.60	1.26	0.80
102	M	1000	1.820	1.660	1.270	0.55	1.14	0.76

Notes:

- Test Frequency :
SPC127: 1.0μH~8.2μH @100KHz 0.25V ; 10μH~1000μH @1KHz 0.25V
SPC127H: 2.2μH~1000μH @100KHz 0.25V
SPC129: 1.0μH~8.2μH @100KHz 0.25V ; 10μH~1000μH @1KHz 0.25V
- Test equipment :
L/Q : HP4284A or HP4285A LCR meter
DCR: Milli-ohm meter.
- 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 .
- Operating temperature range : -40 ~+125