

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

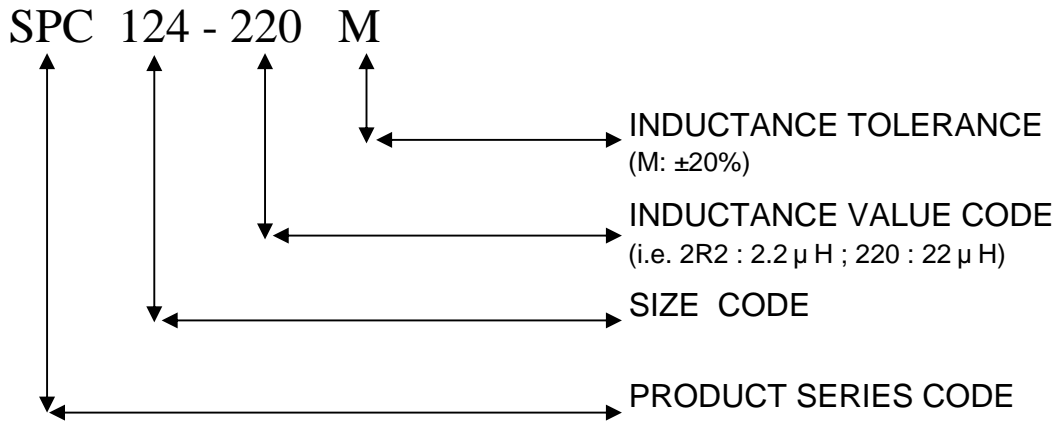
SPC127: 1.0 μ H~8.2 μ H @100KHz 0.25V ; 10 μ H~1000 μ H @1KHz 0.25V

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)

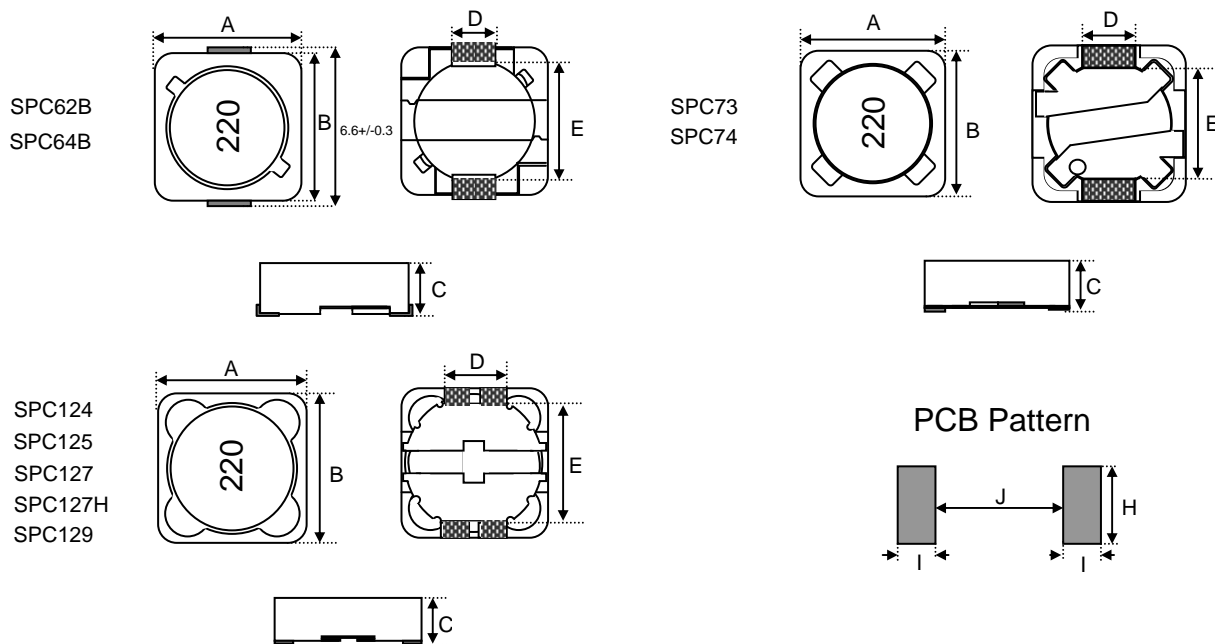


Fig. 1

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

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Electrical Characteristics

SPC 124 / 125 TYPE

Inductance value code	Tol.	L (μH)	DC Resistance (Ω) Max.		Rated DC Current (A) Max.	
			SPC124	SPC125	SPC124	SPC125
1R3	M	1.3	-	0.012	-	8.00
1R5	M	1.5	0.008	-	8.75	-
2R1	M	2.1	-	0.014	-	7.00
2R2	M	2.2	-	0.014	-	7.00
2R5	M	2.5	0.013	-	8.00	-
3R1	M	3.1	-	0.017	-	6.00
3R3	M	3.3	0.015	0.014	6.50	6.75
3R9	M	3.9	0.015	-	6.50	-
4R4	M	4.4	-	0.020	-	5.00
4R7	M	4.7	0.018	0.018	5.70	6.20
5R8	M	5.8	-	0.021	-	4.40
6R8	M	6.8	0.023	0.023	4.90	5.90
7R5	M	7.5	-	0.024	-	4.20
8R2	M	8.2	0.026	0.024	4.60	4.10
100	M	10	0.028	0.025	4.50	4.00
120	M	12	0.038	0.027	4.00	3.50
150	M	15	0.050	0.030	3.20	3.30
180	M	18	0.057	0.034	3.10	3.00
220	M	22	0.066	0.036	2.90	2.80
270	M	27	0.080	0.051	2.80	2.30
330	M	33	0.097	0.057	2.70	2.10
390	M	39	0.132	0.068	2.10	2.00
470	M	47	0.150	0.075	1.90	1.80
560	M	56	0.190	0.110	1.80	1.70
680	M	68	0.220	0.120	1.50	1.50
820	M	82	0.260	0.140	1.30	1.40
101	M	100	0.308	0.160	1.20	1.30
121	M	120	0.380	0.170	1.10	1.10
151	M	150	0.530	0.230	0.95	1.00
181	M	180	0.620	0.290	0.85	0.90
221	M	220	0.700	0.400	0.80	0.80
271	M	270	0.876	0.460	0.60	0.75
331	M	330	0.990	0.510	0.50	0.68
391	M	390	-	0.690	-	0.65
471	M	470	-	0.770	-	0.58
561	M	560	-	0.860	-	0.54
681	M	680	-	1.200	-	0.48
821	M	820	-	1.340	-	0.43
102	M	1000	-	1.530	-	0.40

Notes:

- Test Frequency :
SPC124: 1.5μH~330μH @100KHz 0.25V
SPC125: 1.3μH~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% of its initial value or the actual current when the temperature of coil increases to T=40 .
- Operating temperature range : -40 ~+125