

⊕ Feature

- Low profile very effective in space-conscious applications.
- Low resistance and high energy storage.

⊕ Applications

VTR, OA equipment, digital camera, LCD TV, notebook PC, portable communication equipments, DC/DC converters, power supply

⊕ Product Identification :

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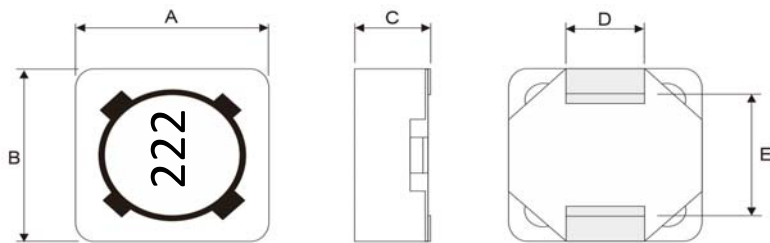
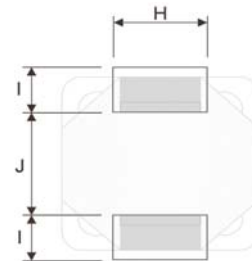
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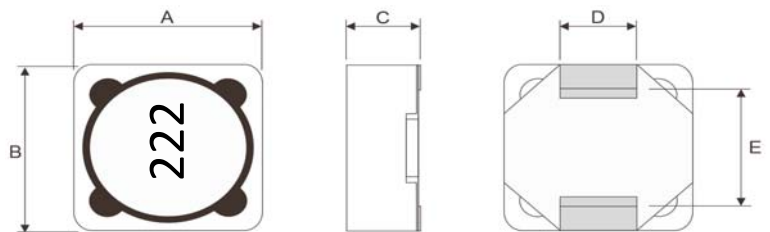
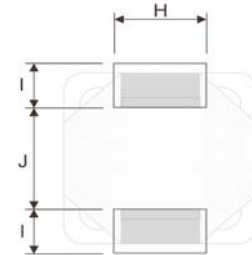
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Series name	Dimensions(LxWxH)		Internal code
SPB	073	7.3*7.3*3.5mm	S=Standard
	129	12*12*10mm	

Inductance		Tolerance	
1R0	1 μH	M	20%
101	100 μH	N	30%

⊕ Shapes And Dimensions

⊕ Recommended PCB Pattern


Part No.	Dimensions(mm)								
	A	B	C	D	E		H	I	J
SPB073S	7.3±0.30	7.3±0.30	3.5 Max.	1.8 Typ	5.0 Typ		2.2 Ref	1.6 Ref	4.8 Ref
SPB074S	7.3±0.30	7.3±0.30	4.5 Max.	1.8 Typ	5.0 Typ		2.2 Ref	1.6 Ref	4.8 Ref

⊕ Shapes And Dimensions

⊕ Recommended PCB Pattern


Part No.	Dimensions(mm)								
	A	B	C	D	E		H	I	J
SPB124S	12.0±0.30	12.0±0.30	5.0 Max.	5.0 Typ	7.6 Typ		5.4 Ref	2.9 Ref	7.0 Ref
SPB125S	12.0±0.30	12.0±0.30	6.5 Max.	5.0 Typ	7.6 Typ		5.4 Ref	2.9 Ref	7.0 Ref
SPB127S	12.0±0.30	12.0±0.30	8.0 Max.	5.0 Typ	7.6 Typ		5.4 Ref	2.9 Ref	7.0 Ref
SPB129S	12.0±0.30	12.0±0.30	10.0 Max.	5.0 Typ	7.6 Typ		5.4 Ref	2.9 Ref	7.0 Ref

⊕ Equivalent Circuit Schematic :

⊕ Material List :

No.	Location	Material
1	Core	Ferrite Ni-Zn core
2	Wire	Grade1,P180
3	Base	SHS-DR9.8
4	Epoxy	G500HF
5	Solder	Sn99.3 Cu0.7
6	Ink	Black

1.Operating temperature -40°C ~ +125°C

2.Storage conditions -40°C ~ +125°C

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (m Ω) Max	Test Frequency
SPB073S-1R0N	1 \pm 30%	7.97	16	100KHz/0.25V
SPB073S-1R5N	1.5 \pm 30%	5.50	23	100KHz/0.25V
SPB073S-2R2N	2.2 \pm 30%	4.50	27	100KHz/0.25V
SPB073S-2R7N	2.7 \pm 30%	4.30	28	100KHz/0.25V
SPB073S-3R3N	3.3 \pm 30%	4.00	31	100KHz/0.25V
SPB073S-3R9N	3.9 \pm 30%	3.80	41	100KHz/0.25V
SPB073S-4R7M	4.7 \pm 20%	3.50	48	100KHz/0.25V
SPB073S-5R6M	5.6 \pm 20%	3.00	56	100KHz/0.25V
SPB073S-6R8M	6.8 \pm 20%	2.10	60	100KHz/0.25V
SPB073S-8R2M	8.2 \pm 20%	1.80	68	100KHz/0.25V
SPB073S-100M	10 \pm 20%	1.68	72	100KHz/0.25V
SPB073S-120M	12 \pm 20%	1.52	98	100KHz/0.25V
SPB073S-150M	15 \pm 20%	1.33	130	100KHz/0.25V
SPB073S-180M	18 \pm 20%	1.20	140	100KHz/0.25V
SPB073S-220M	22 \pm 20%	1.07	190	100KHz/0.25V
SPB073S-270M	27 \pm 20%	0.96	210	100KHz/0.25V
SPB073S-330M	33 \pm 20%	0.91	240	100KHz/0.25V
SPB073S-390M	39 \pm 20%	0.77	320	100KHz/0.25V
SPB073S-470M	47 \pm 20%	0.76	360	100KHz/0.25V
SPB073S-560M	56 \pm 20%	0.68	470	100KHz/0.25V
SPB073S-680M	68 \pm 20%	0.61	520	100KHz/0.25V
SPB073S-820M	82 \pm 20%	0.57	690	100KHz/0.25V
SPB073S-101M	100 \pm 20%	0.50	790	100KHz/0.25V
SPB073S-121M	120 \pm 20%	0.49	890	100KHz/0.25V
SPB073S-151M	150 \pm 20%	0.43	1270	100KHz/0.25V
SPB073S-181M	180 \pm 20%	0.39	1450	100KHz/0.25V
SPB073S-221M	220 \pm 20%	0.35	1650	100KHz/0.25V
SPB073S-271M	270 \pm 20%	0.32	2310	100KHz/0.25V
SPB073S-331M	330 \pm 20%	0.28	2620	100KHz/0.25V
SPB073S-391M	390 \pm 20%	0.26	2940	100KHz/0.25V
SPB073S-471M	470 \pm 20%	0.24	4180	100KHz/0.25V
SPB073S-561M	560 \pm 20%	0.22	4670	100KHz/0.25V
SPB073S-681M	680 \pm 20%	0.19	5730	100KHz/0.25V
SPB073S-821M	820 \pm 20%	0.18	6540	100KHz/0.25V
SPB073S-102M	1000 \pm 20%	0.16	9440	100KHz/0.25V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (m Ω) Max	Test Frequency
SPB074S-1R0N	1.0 \pm 30%	9.000	15	100KHz/0.25V
SPB074S-1R5N	1.5 \pm 30%	7.000	18	100KHz/0.25V
SPB074S-2R2N	2.2 \pm 30%	5.100	28	100KHz/0.25V
SPB074S-2R7N	2.7 \pm 30%	5.00	30	100KHz/0.25V
SPB074S-3R3N	3.3 \pm 30%	4.800	32	100KHz/0.25V
SPB074S-3R9N	3.9 \pm 30%	4.400	35	100KHz/0.25V
SPB074S-4R7M	4.7 \pm 20%	4.000	38	100KHz/0.25V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (m Ω) Max	Test Frequency
SPB074S-5R6M	5.6 \pm 20%	3.500	40	100KHz/0.25V
SPB074S-6R8M	6.8 \pm 20%	3.000	45	100KHz/0.25V
SPB074S-8R2M	8.2 \pm 20%	2.800	49	100KHz/0.25V
SPB074S-100M	10 \pm 20%	1.840	49	100KHz/0.25V
SPB074S-120M	12 \pm 20%	1.710	58	100KHz/0.25V
SPB074S-150M	15 \pm 20%	1.470	81	100KHz/0.25V
SPB074S-180M	18 \pm 20%	1.310	91	100KHz/0.25V
SPB074S-220M	22 \pm 20%	1.230	110	100KHz/0.25V
SPB074S-270M	27 \pm 20%	1.120	150	100KHz/0.25V
SPB074S-330M	33 \pm 20%	0.960	170	100KHz/0.25V
SPB074S-390M	39 \pm 20%	0.910	230	100KHz/0.25V
SPB074S-470M	47 \pm 20%	0.880	260	100KHz/0.25V
SPB074S-560M	56 \pm 20%	0.750	350	100KHz/0.25V
SPB074S-680M	68 \pm 20%	0.690	380	100KHz/0.25V
SPB074S-820M	82 \pm 20%	0.610	430	100KHz/0.25V
SPB074S-101M	100 \pm 20%	0.600	610	100KHz/0.25V
SPB074S-121M	120 \pm 20%	0.520	660	100KHz/0.25V
SPB074S-151M	150 \pm 20%	0.460	880	100KHz/0.25V
SPB074S-181M	180 \pm 20%	0.420	980	100KHz/0.25V
SPB074S-221M	220 \pm 20%	0.360	1170	100KHz/0.25V
SPB074S-271M	270 \pm 20%	0.340	1640	100KHz/0.25V
SPB074S-331M	330 \pm 20%	0.320	1860	100KHz/0.25V
SPB074S-391M	390 \pm 20%	0.290	2850	100KHz/0.25V
SPB074S-471M	470 \pm 20%	0.260	3010	100KHz/0.25V
SPB074S-561M	560 \pm 20%	0.230	3620	100KHz/0.25V
SPB074S-681M	680 \pm 20%	0.220	4630	100KHz/0.25V
SPB074S-821M	820 \pm 20%	0.200	5200	100KHz/0.25V
SPB074S-102M	1000 \pm 20%	0.190	6000	100KHz/0.25V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (m Ω) Max	Test Frequency
SPB124S-2R2N	2.2 \pm 30%	3.55	15	100KHz/0.25V
SPB124S-2R7N	2.7 \pm 30%	3.50	16	100KHz/0.25V
SPB124S-3R3N	3.3 \pm 30%	9.00	15	100KHz/0.25V
SPB124S-3R9N	3.9 \pm 30%	6.50	15	100KHz/0.25V
SPB124S-4R7M	4.7 \pm 20%	5.70	18	100KHz/0.25V
SPB124S-6R8M	6.8 \pm 20%	4.90	23	100KHz/0.25V
SPB124S-8R2M	8.2 \pm 20%	4.60	26	100KHz/0.25V
SPB124S-100M	10.0 \pm 20%	4.50	28	100KHz/0.25V
SPB124S-120M	12.0 \pm 20%	4.00	38	100KHz/0.25V
SPB124S-150M	15.0 \pm 20%	3.20	50	100KHz/0.25V
SPB124S-180M	18.0 \pm 20%	3.10	57	100KHz/0.25V
SPB124S-220M	22.0 \pm 20%	2.90	66	100KHz/0.25V
SPB124S-270M	27.0 \pm 20%	2.80	80	100KHz/0.25V
SPB124S-330M	33.0 \pm 20%	2.70	97	100KHz/0.25V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (m Ω) Max	Test Frequency
SPB124S-390M	39.0 \pm 20%	2.10	132	100KHz/0.25V
SPB124S-470M	47.0 \pm 20%	1.90	140	100KHz/0.25V
SPB124S-560M	56.0 \pm 20%	1.80	190	100KHz/0.25V
SPB124S-680M	68.0 \pm 20%	1.50	220	100KHz/0.25V
SPB124S-820M	82.0 \pm 20%	1.30	260	100KHz/0.25V
SPB124S-101M	100.0 \pm 20%	1.20	308	100KHz/0.25V
SPB124S-121M	120.0 \pm 20%	1.10	380	100KHz/0.25V
SPB124S-151M	150.0 \pm 20%	0.95	530	100KHz/0.25V
SPB124S-181M	180.0 \pm 20%	0.85	620	100KHz/0.25V
SPB124S-221M	220.0 \pm 20%	0.80	700	100KHz/0.25V
SPB124S-271M	270.0 \pm 20%	0.60	870	100KHz/0.25V
SPB124S-331M	330.0 \pm 20%	0.50	990	100KHz/0.25V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (m Ω) Max	Test Frequency
SPB125S-1R0N	1.0 \pm 30%	11.00	8	100KHz/0.25V
SPB125S-1R3N	1.3 \pm 30%	11.00	8	100KHz/0.25V
SPB125S-2R2N	2.2 \pm 30%	11.00	9	100KHz/0.25V
SPB125S-2R7N	2.7 \pm 30%	9.00	14	100KHz/0.25V
SPB125S-3R1N	3.1 \pm 30%	8.00	17	100KHz/0.25V
SPB125S-3R3M	3.3 \pm 20%	8.00	17	100KHz/0.25V
SPB125S-3R9M	3.9 \pm 20%	7.50	18	100KHz/0.25V
SPB125S-4R4M	4.4 \pm 20%	7.50	18	100KHz/0.25V
SPB125S-4R7M	4.7 \pm 20%	7.50	19	100KHz/0.25V
SPB125S-5R6M	5.6 \pm 20%	7.50	19	100KHz/0.25V
SPB125S-5R8M	5.8 \pm 20%	7.50	21	100KHz/0.25V
SPB125S-6R8M	6.8 \pm 20%	7.00	22	100KHz/0.25V
SPB125S-7R5M	7.5 \pm 20%	7.00	24	100KHz/0.25V
SPB125S-8R2M	8.2 \pm 20%	7.00	26	100KHz/0.25V
SPB125S-100M	10.0 \pm 20%	7.00	26	100KHz/0.25V
SPB125S-120M	12.0 \pm 20%	5.00	30	100KHz/0.25V
SPB125S-150M	15.0 \pm 20%	3.20	38	100KHz/0.25V
SPB125S-180M	18.0 \pm 20%	3.00	40	100KHz/0.25V
SPB125S-220M	22.0 \pm 20%	2.80	42	100KHz/0.25V
SPB125S-270M	27.0 \pm 20%	2.30	51	100KHz/0.25V
SPB125S-330M	33.0 \pm 20%	2.10	57	100KHz/0.25V
SPB125S-390M	39.0 \pm 20%	2.00	68	100KHz/0.25V
SPB125S-470M	47.0 \pm 20%	1.80	75	100KHz/0.25V
SPB125S-560M	56.0 \pm 20%	1.70	110	100KHz/0.25V
SPB125S-680M	68.0 \pm 20%	1.50	120	100KHz/0.25V
SPB125S-820M	82.0 \pm 20%	1.40	140	100KHz/0.25V
SPB125S-101M	100.0 \pm 20%	1.30	160	100KHz/0.25V
SPB125S-121M	120.0 \pm 20%	1.20	232	100KHz/0.25V
SPB125S-151M	150.0 \pm 20%	1.00	230	100KHz/0.25V
SPB125S-181M	180.0 \pm 20%	0.90	290	100KHz/0.25V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (m Ω) Max	Test Frequency
SPB125S-221M	220.0 \pm 20%	0.80	400	100KHz/0.25V
SPB125S-271M	270.0 \pm 20%	0.75	460	100KHz/0.25V
SPB125S-331M	330.0 \pm 20%	0.68	510	100KHz/0.25V
SPB125S-391M	390.0 \pm 20%	0.65	690	100KHz/0.25V
SPB125S-471M	470.0 \pm 20%	0.58	770	100KHz/0.25V
SPB125S-561M	560.0 \pm 20%	0.54	860	100KHz/0.25V
SPB125S-681M	680.0 \pm 20%	0.48	1200	100KHz/0.25V
SPB125S-821M	820.0 \pm 20%	0.43	1340	100KHz/0.25V
SPB125S-102M	1000.0 \pm 20%	0.40	1530	100KHz/0.25V
SPB125S-152M	1500.0 \pm 20%	0.45	3000	100KHz/0.25V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (m Ω) Max	Test Frequency
SPB127S-1R2N	1.2 \pm 30%	9.80	7	100KHz/0.25V
SPB127S-2R2N	2.2 \pm 30%	9.00	11.5	100KHz/0.25V
SPB127S-2R4N	2.4 \pm 30%	8.00	11.5	100KHz/0.25V
SPB127S-2R7N	2.7 \pm 30%	8.00	12	100KHz/0.25V
SPB127S-3R5N	3.5 \pm 30%	7.50	13.5	100KHz/0.25V
SPB127S-3R9N	3.9 \pm 30%	7.50	14	100KHz/0.25V
SPB127S-4R7M	4.7 \pm 20%	6.80	15.8	100KHz/0.25V
SPB127S-6R8M	6.8 \pm 20%	6.60	18	100KHz/0.25V
SPB127S-7R6M	7.6 \pm 20%	5.90	20	100KHz/0.25V
SPB127S-8R2M	8.2 \pm 20%	5.90	20	100KHz/0.25V
SPB127S-100M	10.0 \pm 20%	5.40	21.6	100KHz/0.25V
SPB127S-120M	12.0 \pm 20%	4.90	24	100KHz/0.25V
SPB127S-150M	15.0 \pm 20%	4.50	27	100KHz/0.25V
SPB127S-180M	18.0 \pm 20%	3.90	39	100KHz/0.25V
SPB127S-220M	22.0 \pm 20%	3.60	42	100KHz/0.25V
SPB127S-270M	27.0 \pm 20%	3.40	45	100KHz/0.25V
SPB127S-330M	33.0 \pm 20%	3.00	64	100KHz/0.25V
SPB127S-390M	39.0 \pm 20%	2.75	72	100KHz/0.25V
SPB127S-470M	47.0 \pm 20%	2.50	100	100KHz/0.25V
SPB127S-560M	56.0 \pm 20%	2.35	110	100KHz/0.25V
SPB127S-680M	68.0 \pm 20%	2.10	140	100KHz/0.25V
SPB127S-820M	82.0 \pm 20%	1.95	160	100KHz/0.25V
SPB127S-101M	100.0 \pm 20%	1.90	220	100KHz/0.25V
SPB127S-121M	120.0 \pm 20%	1.70	230	100KHz/0.25V
SPB127S-151M	150.0 \pm 20%	1.60	280	100KHz/0.25V
SPB127S-181M	180.0 \pm 20%	1.55	350	100KHz/0.25V
SPB127S-221M	220.0 \pm 20%	1.50	390	100KHz/0.25V
SPB127S-271M	270.0 \pm 20%	1.50	560	100KHz/0.25V
SPB127S-331M	330.0 \pm 20%	1.50	640	100KHz/0.25V
SPB127S-391M	390.0 \pm 20%	1.45	700	100KHz/0.25V
SPB127S-471M	470.0 \pm 20%	1.35	930	100KHz/0.25V
SPB127S-561M	560.0 \pm 20%	1.30	950	100KHz/0.25V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (m Ω) Max	Test Frequency
SPB127S-681M	680.0 \pm 20%	1.20	980	100KHz/0.25V
SPB127S-821M	820.0 \pm 20%	1.00	1000	100KHz/0.25V
SPB127S-102M	1000.0 \pm 20%	1.00	1100	100KHz/0.25V
SPB127S-152M	1500.0 \pm 20%	0.65	2350	100KHz/0.25V
SPB127S-162M	1600.0 \pm 20%	0.60	2400	100KHz/0.25V
SPB127S-182M	1800.0 \pm 20%	0.55	2900	100KHz/0.25V
SPB127S-202M	2000.0 \pm 20%	0.53	3000	100KHz/0.25V
SPB127S-222M	2200.0 \pm 20%	0.50	3500	100KHz/0.25V
SPB127S-332M	3300.0 \pm 20%	0.40	4200	100KHz/0.25V

⊕ Electrical Characteristics :

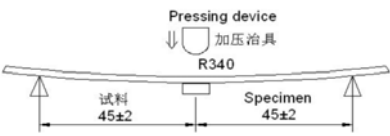
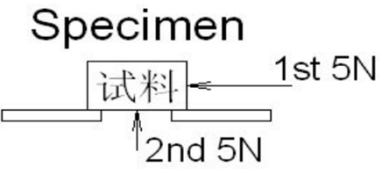
Part No.	Inductance (μ H)	Isat (A) Max	DCR (m Ω) Max	Test Frequency
SPB129S-2R7N	2.7 \pm 30%	13.00	9	100KHz/0.25V
SPB129S-3R9N	3.9 \pm 30%	11.00	10	100KHz/0.25V
SPB129S-4R7M	4.7 \pm 20%	10.00	11	100KHz/0.25V
SPB129S-6R8M	6.8 \pm 20%	9.00	14	100KHz/0.25V
SPB129S-8R2M	8.2 \pm 20%	8.80	16	100KHz/0.25V
SPB129S-100M	10 \pm 20%	8.60	18	100KHz/0.25V
SPB129S-150M	15 \pm 20%	8.00	26	100KHz/0.25V
SPB129S-180M	18 \pm 20%	5.50	35	100KHz/0.25V
SPB129S-220M	22 \pm 20%	5.50	35	100KHz/0.25V
SPB129S-270M	27 \pm 20%	6.00	42	100KHz/0.25V
SPB129S-330M	33 \pm 20%	4.20	51	100KHz/0.25V
SPB129S-470M	47 \pm 20%	3.80	80	100KHz/0.25V
SPB129S-680M	68 \pm 20%	3.60	89	100KHz/0.25V
SPB129S-820M	82 \pm 20%	3.50	96	100KHz/0.25V
SPB129S-101M	100 \pm 20%	3.10	200	100KHz/0.25V
SPB129S-121M	120 \pm 20%	2.80	250	100KHz/0.25V
SPB129S-151M	150 \pm 20%	2.70	260	100KHz/0.25V
SPB129S-181M	180 \pm 20%	2.70	350	100KHz/0.25V
SPB129S-221M	220 \pm 20%	2.00	360	100KHz/0.25V
SPB129S-271M	270 \pm 20%	1.80	370	100KHz/0.25V
SPB129S-391M	390 \pm 20%	1.60	400	100KHz/0.25V
SPB129S-401M	400 \pm 20%	1.50	540	100KHz/0.25V
SPB129S-471M	470 \pm 20%	1.40	550	100KHz/0.25V
SPB129S-681M	680 \pm 20%	1.25	930	100KHz/0.25V
SPB129S-821M	820 \pm 20%	1.00	950	100KHz/0.25V
SPB129S-102M	1000 \pm 20%	1.00	1200	100KHz/0.25V
SPB129S-162M	1600 \pm 20%	0.65	2160	100KHz/0.25V
SPB129S-202M	2000 \pm 20%	0.65	2900	100KHz/0.25V
SPB129S-222M	2200 \pm 20%	0.58	3150	100KHz/0.25V

Note : Specifications which provide more details for the proper and safe use of the described product are available upon request. all specifications are subject to change without notice.

Isat : DC Saturation Current that will cause initial inductance to drop approximately 30% max.(at 20°C ambient.)

Test Instrument : L (WK6500B), RDC(HIOKI RM3542A), Isat & Irms (WK3260B+WK3265B) or equivalent.

⊕ General Characteristics

項目 Item	Conditions	Specification
温度特性 Temperature drift	在温度-40 ~ + 125°C之间测试。 To be measured in the range of -40°C to 125°C.	Inductance temperature coefficient 2000 ppm/°C or less
保存温度范围 Storage Temperature	在包装的状态下。 With taping.	- 40°C ~ + 125°C
使用温度范围 Operating Temperature	包括制品的发热温度。 Including self temperature rise.	- 40°C ~ + 125°C
弯曲测试 Bending test	<p>试件焊接在基板上，按箭头方向以大约0.5mm/秒的速度加压，直到基板变形幅度到3mm 保持30 秒。</p> <p>Apply pressure gradually in the direction of the arrow at a rate of about 0.5mm/s until bent depth reaches 3mm and hold for 30±5s.</p>  <p>基板Board: 40*100mm 厚Thickness: 1.0mm</p>	Change from an initial value L : within±10%
固着强度 Adhesion strength	<p>按箭头方向用R0.5 的加压棒在试件中施加一定的静力并保持60±5秒。</p> <p>A static load using a R0.5 pressing tool shall be applied the arrow and to the body of the specimen in the direction of the arrow and shall be hold for 60±5s. Measure after removing pressure.</p> 	Change from an initial value L : within±10%

耐振性 Vibration	<p>振动频率10~55~10Hz, 振幅1.5mm, 分X,Y,Z 方向各振动1 小时 (共3 小时) 。</p> <p>The specimen shall be subjected to a vibration of 1.5mm amplitude, sweep frequency 10~55Hz (10Hz to 55Hz to 10Hz in a period of one minute) for 1 h in each of 3(X,Y,Z) axes.</p>	Change from an initial value L : within±10%
耐冲击性 Mechanical shock	<p>利用橡胶块式落下冲击试验机, 分别在3 个互相垂直的方向以981m/S² 的冲击加速度落下。</p> <p>Peak acceleration: 981 m/S² Duration of pulse: 6ms 3 times in each of 3(X,Y,Z)axes. The specimen must be fixed on test board. Three successive shock shall be applied in the perpendicular direction of each surface of the specimen.</p>	Change from an initial value L : within±10%
自然落下试验 Free fall test	<p>试件安装在基板上, 并固定在重500 克的盒中, 由1 米高自由落体, 3 个互相垂直的方向各3 次。</p> <p>The specimen must be fixed on test board. It must be equipped with instruments of which weight is 500g. Then it shall be fallen freely from 1m height to rigid wood 3 times in each of three axes.</p>	Change from an initial value L : within±10%
焊锡附着性 Solder ability	<p>试验品的电极深布松香后, 在5 ~ 10 秒内焊锡, 焊锡槽温度245±5℃, 时间: 3±0.5 秒。</p> <p>Terminals shall be immersed for 5 to 10 seconds in flux at room temperature. Dip sample into solder bath containing molten solder at 245±5°C for 3±0.5 seconds.</p>	90%以上的面积要被覆盖。 New solder shall cover 90% minimum of the surface immersed.
耐电压 Dielectric strength	<p>在电极与磁材之间加入直流电压100V 通电时间1 分钟。</p> <p>100V DC shall be applied for 60s between the terminal and the core.</p>	没有损害。 Without damage.

<p>焊锡耐热性 Resistance to soldering heat</p>	<p>试验方法Test method 热风炉焊接Reflow soldering method 预热Preheat 150~180°C 90±30s 峰值温度Peak temp 250(+ 5,-0)°C (230°Cmin , 30±10s) 试验板的厚度0.8mm 上按上面条件通过两次热风炉。</p> <p>The specimen shall be subjected to the reflow process under the above condition 2 times.Test board shall be 0.8mm thick. Base material shall be glass epoxy resin.</p> <p>测定Measurement 常温常湿中放置于1 小时以上测试。 The specimen shall be stored at standard atmospheric conditions for 1 h in prior to the measurement.</p>	<p>Change from an initial value L : within±10%</p>
<p>绝缘抵抗 Insulation resistance</p>	<p>在电极与磁材之间加入直流电压100V。</p> <p>100V DC shall be applied between the terminal and the core.</p>	<p>100mΩ 以上 100mΩ or more.</p>
<p>耐寒性 Low temperature</p>	<p>在温度-40±3°C中放置500±12 小时后，常温常湿中放置1 小时以上2 小时以内测试。</p> <p>The specimen shall be stored at a temperature of -40 ±3°C for 500 ±12h. Then it shall be stabilized under standard atmospheric conditions for 1 h before measurement Measurement shall be made within 1h.</p>	<p>Change from an initial value L : within±10%</p>
<p>耐热性 Dry heat</p>	<p>在温度125±2°C中放置500±12 小时后，常温常湿中放置1 小时以上2 小时以内测试。</p> <p>The specimen shall be stored at a temperature of 125 ± 2°C for 500± 12h. Then it shall be stabilized under standard atmospheric conditions for 1 h before measurement. Measurement shall be made within 1h.</p>	<p>Change from an initial value L : within±10%</p>

耐湿性 Dump heat	<p>在温度$60\pm 2^{\circ}\text{C}$·湿度90~95%中放置500 ± 12小时后·常温常湿中放置1小时以上2小时以内测试。</p> <p>The specimen shall be stored at a temperature of $60\pm 2^{\circ}\text{C}$ with relative humidity of 90 ~ 95% for $500 \pm 2\text{h}$. Then it shall be stabilized under standard atmospheric conditions for 1 h before measurement. Measurement shall be made within 1h.</p>	Change from an initial value L : within $\pm 10\%$
温度循环 Temperature cycle	<p>以温度-40°C中放置30分钟·在125°C放置30分钟·中间转换时间不超过2分钟为一个循环·完成500个循环后·常温常湿中放置1小时以上2小时以内测试。</p> <p>The specimen shall be subjected to 500 continuous cycles of temperature change of -40°C for 30 min and 125°C for 30 min with the transit period of 2min or less. Then it shall be stabilized under standard atmospheric conditions for 1 h before measurement. Measurement shall be made within 1h.</p>	Change from an initial value L : within $\pm 10\%$

标准状态Standard atmospheric conditions

Unless otherwise specified, the standard range of atmospheric conditions in making measurements and test as follows;

Ambient temperature : 5°C to 35°C , Relative humidity: 45% to 85%, Air pressure: 86kPa to 106kPa

If more strict measurement is required, measurement shall be made within following limits;

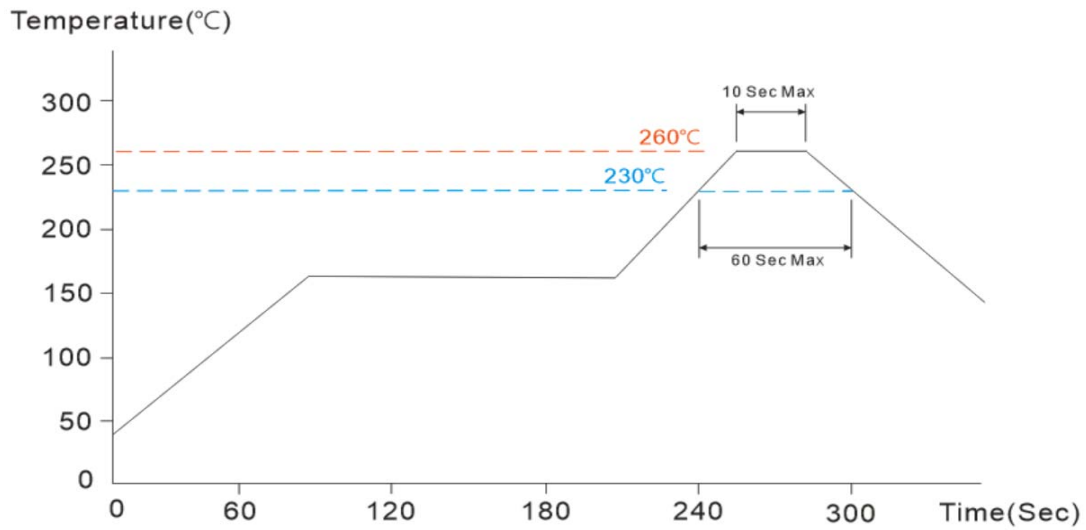
Ambient temperature : $20\pm 2^{\circ}\text{C}$, Relative humidity: $65\pm 5\%$, Air pressure: 86kPa to 106kPa

禁用物质Prohibited Substances

我公司保证我司的产品和生产过程符合“RoHS 规则”·所有产品中使用的材料均是化学物质生产规则中登记的材料。

We confirm that our products and our production process accord with "rule of RoHS". All materials used in this product are registered material under the law concerning the examination and Regulation of Manufacture of Chemical Substances.

⊕ Reflow Soldering Heat Endurance

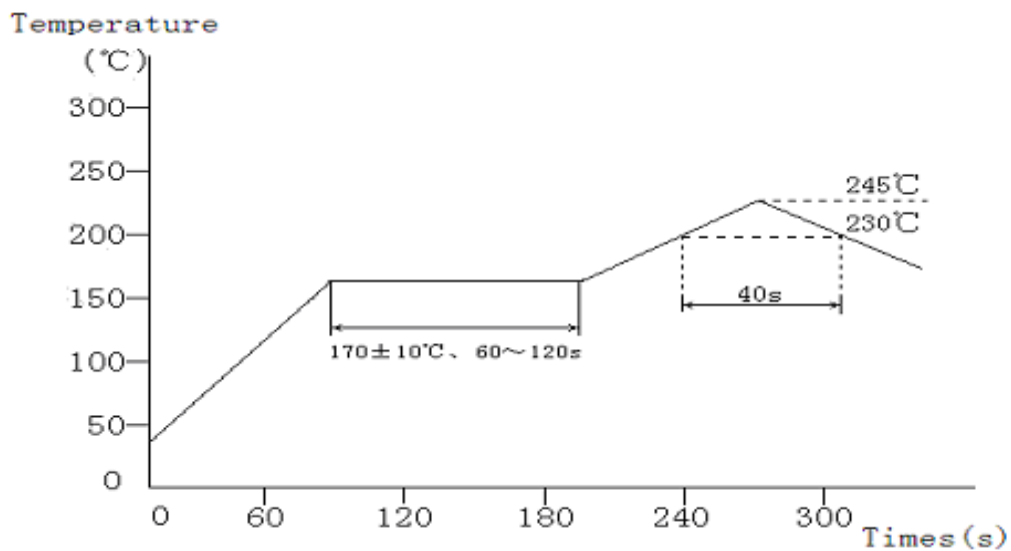


No mechanical and electrical defects are found after testing based on the above profile and keeping under the conditions of room temperature and humidity for 2 hours.

Twice reflow test is acceptable with the test interval remaining 1 hour under the normal conditions.

The reflow test profile may vary with the testing instruments.

⊕ Recommended Reflow Conditions

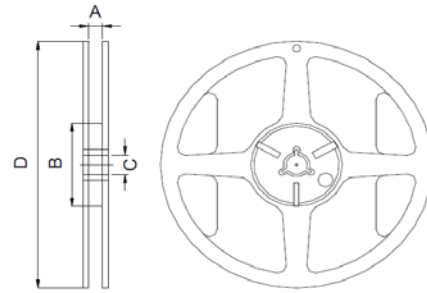
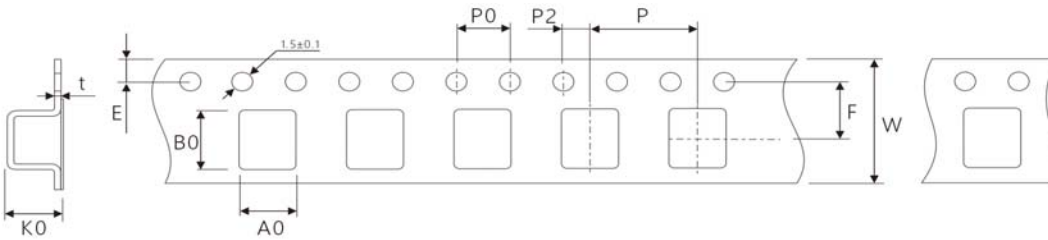


The recommended reflow profile is based on the testing instruments used. Solder ability will depend on the testing equipments, reflow conditions, testing method, etc. So it is necessary to make a confirmation of them when the reflow conditions are set up.

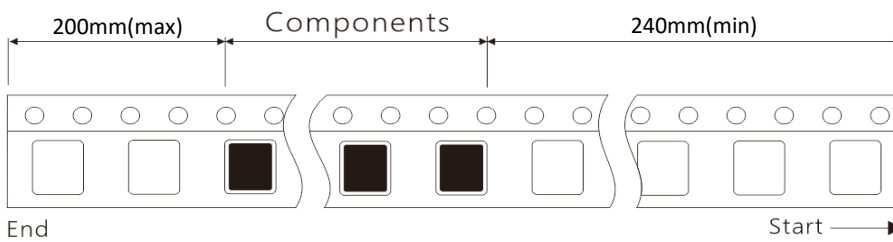
However halogen lamp shall be used, side heat will be beyond range of resistance heat, so we can't recommend it.

⊕Reel Dimension(m/m)

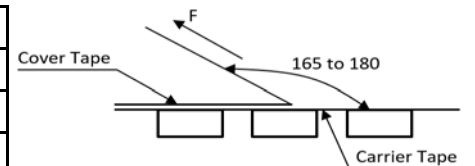
Item	A	B	C	D
SPB073	16.5±1	100±1	13±1	330±1
SPB074	16.5±1	100±1	13±1	330±1
SPB124	24.5±1	100±1	13±1	330±1
SPB125	24.5±1	100±1	13±1	330±1
SPB127	24.5±1	100±1	13±1	330±1
SPB129	24.5±1	100±1	13±1	330±1


⊕Taping Dimension(m/m)


Item	W	Ao	Bo	Ko	E	F	P	P0	P2	t
SPB073	16.0±0.3	7.7±0.1	7.7±0.1	4.0±0.1	1.75±0.1	7.5±0.1	12.0±0.1	4.0±0.1	2.0±0.1	0.3±0.05
SPB074	16.0±0.3	8.0±0.1	8.0±0.1	4.5±0.1	1.75±0.1	7.5±0.1	12.0±0.1	4.0±0.1	2.0±0.1	0.3±0.05
SPB124	24.0±0.3	12.6±0.1	12.6±0.1	5.2±0.1	1.75±0.1	11.5±0.1	16.0±0.1	4.0±0.1	2.0±0.1	0.4±0.05
SPB125	24.0±0.3	12.5±0.1	12.5±0.1	6.0±0.1	1.75±0.1	11.5±0.1	16.0±0.1	4.0±0.1	2.0±0.1	0.4±0.05
SPB127	24.0±0.3	12.3±0.1	12.3±0.1	8.05±0.1	1.75±0.1	11.5±0.1	16.0±0.1	4.0±0.1	2.0±0.1	0.4±0.05
SPB129	24.0±0.3	12.3±0.1	12.4±0.1	10.0±0.1	1.75±0.1	11.5±0.1	16.0±0.1	4.0±0.1	2.0±0.1	0.4±0.05

⊕Taping method

⊕Taping Off Force

in the arrow direction under the following conditio			
Room Temp	Room Humidity	Room atrn	Teaming Speed
(°C)	(%)	(hPa)	(mm/min)
5~35	45~85	860~1060	300


⊕ Packaging Carton

Item	Reel Packing	Inner Box Packing	Carton Packing
SPB073	1,000 PCS / Reel	3,000 PCS / Box	6,000 PCS / Box
SPB074	1,000 PCS / Reel	3,000 PCS / Box	6,000 PCS / Box
SPB124	500 PCS / Reel	1,000 PCS / Box	2,000 PCS / Box
SPB125	500 PCS / Reel	1,000 PCS / Box	2,000 PCS / Box
SPB127	500 PCS / Reel	1,000 PCS / Box	2,000 PCS / Box
SPB129	250 PCS / Reel	500 PCS / Box	1,000 PCS / Box

