

⊕ 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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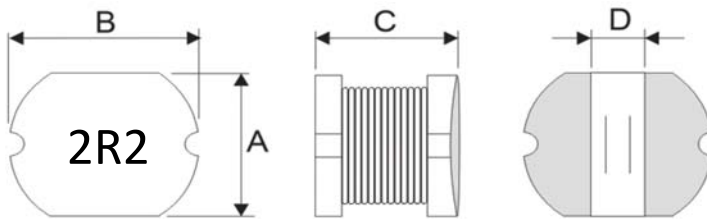
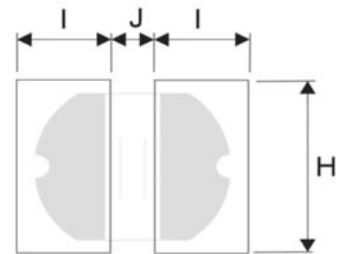
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Series name	Dimensions(LxWxH)		Internal code
PL	0301	3.5*3.0*2.1mm	S=Standard
	1005	10.0*9.0*5.4mm	

Inductance		Tolerance	
1R0	1 μ H	K	10%
101	100 μ H	M	20%

⊕ Shapes And Dimensions

⊕ Recommended PCB Pattern


Part No.	Dimensions(mm)								
	A	B	C	D			H	I	J
PL0301F	3.5±0.30	3.0±0.30	1.6±0.30	1.1 Ref			3.3 Ref	1.7 Ref	1.1 Ref
PL0302	3.5±0.30	3.0±0.30	2.1±0.30	1.1 Ref			3.3 Ref	1.7 Ref	1.1 Ref
PL0403	4.5±0.30	4.0±0.30	3.2±0.30	1.2 Ref			4.5 Ref	2.0 Ref	1.5 Ref
PL0502	5.8±0.30	5.2±0.30	2.0±0.30	1.5 Ref			5.5 Ref	2.4 Ref	1.7 Ref
PL0503	5.8±0.30	5.2±0.30	3.0±0.30	1.5 Ref			5.5 Ref	2.4 Ref	1.7 Ref
PL0504	5.8±0.30	5.2±0.30	4.5±0.30	1.5 Ref			5.5 Ref	2.4 Ref	1.7 Ref
PL0703	7.8±0.30	7.0±0.30	3.5±0.30	2.1 Ref			7.5 Ref	3.25 Ref	2.0 Ref
PL0705	7.8±0.30	7.0±0.30	5.0±0.30	2.1 Ref			7.5 Ref	3.25 Ref	2.0 Ref
PL1004	10.0±0.30	9.0±0.30	4.0±0.30	2.9 Ref			9.5 Ref	5.0 Ref	2.5 Ref
PL1005	10.0±0.30	9.0±0.30	5.4±0.30	2.9 Ref			9.5 Ref	5.0 Ref	2.5 Ref

⊕ Equivalent Circuit Schematic :

⊕ Material List :

No.	Location	Material
1	Core	Ferrite Ni-Zn core
2	Wire	Grade1,P180
3	Solder	Sn99.3 Cu0.7
4	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 (Ω) Max	Test Frequency
PL0301F-1R0N	1.0 \pm 30%	1.40	0.083	100KHz/0.25V
PL0301F-1R2N	1.2 \pm 30%	1.24	0.099	100KHz/0.25V
PL0301F-1R5N	1.5 \pm 30%	1.06	0.128	100KHz/0.25V
PL0301F-1R8N	1.8 \pm 30%	0.96	0.145	100KHz/0.25V
PL0301F-2R2M	2.2 \pm 20%	0.88	0.194	100KHz/0.25V
PL0301F-2R7M	2.7 \pm 20%	0.80	0.225	100KHz/0.25V
PL0301F-3R3M	3.3 \pm 20%	0.79	0.270	100KHz/0.25V
PL0301F-3R9M	3.9 \pm 20%	0.68	0.321	100KHz/0.25V
PL0301F-4R7M	4.7 \pm 20%	0.66	0.376	100KHz/0.25V
PL0301F-5R6M	5.6 \pm 20%	0.61	0.393	100KHz/0.25V
PL0301F-6R8M	6.8 \pm 20%	0.56	0.485	100KHz/0.25V
PL0301F-8R2M	8.2 \pm 20%	0.50	0.628	100KHz/0.25V
PL0301F-100M	10.0 \pm 20%	0.45	0.809	100KHz/0.25V
PL0301F-120M	12.0 \pm 20%	0.40	0.901	100KHz/0.25V
PL0301F-150M	15.0 \pm 20%	0.37	1.063	100KHz/0.25V
PL0301F-180M	18.0 \pm 20%	0.34	1.231	100KHz/0.25V
PL0301F-220M	22.0 \pm 20%	0.31	1.750	100KHz/0.25V
PL0301F-270M	27.0 \pm 20%	0.28	2.113	100KHz/0.25V
PL0301F-330M	33.0 \pm 20%	0.24	2.888	100KHz/0.25V
PL0301F-390M	39.0 \pm 20%	0.23	3.100	100KHz/0.25V
PL0301F-470M	47.0 \pm 20%	0.21	3.513	100KHz/0.25V
PL0301F-560M	56.0 \pm 20%	0.20	3.950	100KHz/0.25V
PL0301F-680M	68.0 \pm 20%	0.18	5.688	100KHz/0.25V
PL0301F-820M	82.0 \pm 20%	0.15	6.575	100KHz/0.25V
PL0301F-101M	100.0 \pm 20%	0.14	7.700	100KHz/0.25V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (Ω) Max	Test Frequency
PL0302S-1R0N	1 \pm 30%	3.1	0.045	100KHz/0.25V
PL0302S-1R2N	1.2 \pm 30%	3.1	0.045	100KHz/0.25V
PL0302S-1R4N	1.4 \pm 30%	2.1	0.078	100KHz/0.25V
PL0302S-1R5N	1.5 \pm 30%	2.1	0.078	100KHz/0.25V
PL0302S-1R8N	1.8 \pm 30%	2.0	0.080	100KHz/0.25V
PL0302S-2R2M	2.2 \pm 20%	1.8	0.085	100KHz/0.25V
PL0302S-3R3M	3.3 \pm 20%	1.7	0.110	100KHz/0.25V
PL0302S-3R9M	3.9 \pm 20%	1.6	0.130	100KHz/0.25V
PL0302S-4R7M	4.7 \pm 20%	1.5	0.170	100KHz/0.25V
PL0302S-5R6M	5.6 \pm 20%	1.2	0.185	100KHz/0.25V
PL0302S-6R8M	6.8 \pm 20%	1.05	0.200	100KHz/0.25V
PL0302S-8R2M	8.2 \pm 20%	0.900	0.220	100KHz/0.25V
PL0302S-100M	10 \pm 20%	0.760	0.230	100KHz/0.25V
PL0302S-120M	12 \pm 20%	0.685	0.270	100KHz/0.25V
PL0302S-150M	15 \pm 20%	0.635	0.310	100KHz/0.25V
PL0302S-180M	18 \pm 20%	0.525	0.410	100KHz/0.25V
PL0302S-220M	22 \pm 20%	0.500	0.470	100KHz/0.25V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (Ω) Max	Test Frequency
PL0302S-270M	27 \pm 20%	0.405	0.660	100KHz/0.25V
PL0302S-330M	33 \pm 20%	0.380	0.760	100KHz/0.25V
PL0302S-390M	39 \pm 20%	0.355	0.850	100KHz/0.25V
PL0302S-470M	47 \pm 20%	0.330	0.970	100KHz/0.25V
PL0302S-560M	56 \pm 20%	0.290	1.250	100KHz/0.25V
PL0302S-680M	68 \pm 20%	0.275	1.450	100KHz/0.25V
PL0302S-820M	82 \pm 20%	0.235	1.850	100KHz/0.25V
PL0302S-101M	100 \pm 20%	0.220	2.200	100KHz/0.25V
PL0302S-121M	120 \pm 20%	0.185	2.900	100KHz/0.25V
PL0302S-151M	150 \pm 20%	0.170	3.400	100KHz/0.25V
PL0302S-181M	180 \pm 20%	0.165	3.900	100KHz/0.25V
PL0302S-221M	220 \pm 20%	0.155	4.500	100KHz/0.25V
PL0302S-271M	270 \pm 20%	0.135	6.000	100KHz/0.25V
PL0302S-331M	330 \pm 20%	0.125	7.000	100KHz/0.25V
PL0302S-391M	390 \pm 20%	0.115	7.800	100KHz/0.25V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (Ω) Max	Test Frequency
PL0403S-1R0N	1 \pm 30%	3.80	0.033	100KHz/0.25V
PL0403S-1R4N	1.4 \pm 30%	3.30	0.038	100KHz/0.25V
PL0403S-1R8N	1.8 \pm 30%	2.91	0.042	100KHz/0.25V
PL0403S-2R2M	2.2 \pm 20%	2.60	0.047	100KHz/0.25V
PL0403S-2R7M	2.7 \pm 20%	2.43	0.052	100KHz/0.25V
PL0403S-3R3M	3.3 \pm 20%	2.15	0.058	100KHz/0.25V
PL0403S-3R9M	3.9 \pm 20%	1.98	0.076	100KHz/0.25V
PL0403S-4R7M	4.7 \pm 20%	1.70	0.094	100KHz/0.25V
PL0403S-5R6M	5.6 \pm 20%	1.60	0.101	100KHz/0.25V
PL0403S-6R8M	6.8 \pm 20%	1.41	0.117	100KHz/0.25V
PL0403S-8R2M	8.2 \pm 20%	1.26	0.132	100KHz/0.25V
PL0403S-100M	10 \pm 20%	1.15	0.182	100KHz/0.25V
PL0403S-120M	12 \pm 20%	1.05	0.210	100KHz/0.25V
PL0403S-150M	15 \pm 20%	0.92	0.235	100KHz/0.25V
PL0403S-180M	18 \pm 20%	0.84	0.338	100KHz/0.25V
PL0403S-220M	22 \pm 20%	0.76	0.378	100KHz/0.25V
PL0403S-270M	27 \pm 20%	0.71	0.522	100KHz/0.25V
PL0403S-330M	33 \pm 20%	0.64	0.540	100KHz/0.25V
PL0403S-390M	39 \pm 20%	0.59	0.587	100KHz/0.25V
PL0403S-470M	47 \pm 20%	0.54	0.844	100KHz/0.25V
PL0403S-560M	56 \pm 20%	0.50	0.937	100KHz/0.25V
PL0403S-680M	68 \pm 20%	0.46	1.117	100KHz/0.25V
PL0403S-820M	82 \pm 20%	0.45	1.345	100KHz/0.25V
PL0403S-101M	100 \pm 20%	0.44	1.520	100KHz/0.25V
PL0403S-121M	120 \pm 20%	0.43	1.800	100KHz/0.25V
PL0403S-151M	150 \pm 20%	0.42	2.000	100KHz/0.25V
PL0403S-181M	180 \pm 20%	0.38	3.200	100KHz/0.25V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (Ω) Max	Test Frequency
PL0403S-221M	220 \pm 20%	0.36	3.400	100KHz/0.25V
PL0403S-271M	270 \pm 20%	0.34	3.900	100KHz/0.25V
PL0403S-331M	330 \pm 20%	0.28	5.300	100KHz/0.25V
PL0403S-391M	390 \pm 20%	0.24	5.900	100KHz/0.25V
PL0403S-471M	470 \pm 20%	0.21	6.800	100KHz/0.25V
PL0403S-561M	560 \pm 20%	0.20	8.500	100KHz/0.25V
PL0403S-681M	680 \pm 20%	0.18	10.000	100KHz/0.25V
PL0403S-821M	820 \pm 20%	0.15	13.400	100KHz/0.25V
PL0403S-102M	1000 \pm 20%	0.14	15.600	100KHz/0.25V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (Ω) Max	Test Frequency
PL0502S-1R0N	1 \pm 30%	4.50	0.045	100KHz/0.25V
PL0502S-1R2N	1.2 \pm 30%	4.20	0.050	100KHz/0.25V
PL0502S-1R5N	1.5 \pm 30%	4.00	0.060	100KHz/0.25V
PL0502S-1R8N	1.8 \pm 30%	3.70	0.065	100KHz/0.25V
PL0502S-2R2M	2.2 \pm 20%	3.50	0.070	100KHz/0.25V
PL0502S-2R7M	2.7 \pm 20%	3.20	0.080	100KHz/0.25V
PL0502S-3R3M	3.3 \pm 20%	2.70	0.100	100KHz/0.25V
PL0502S-3R9M	3.9 \pm 20%	2.40	0.120	100KHz/0.25V
PL0502S-4R7M	4.7 \pm 20%	2.00	0.140	100KHz/0.25V
PL0502S-5R6M	5.6 \pm 20%	1.80	0.150	100KHz/0.25V
PL0502S-6R8M	6.8 \pm 20%	1.50	0.160	100KHz/0.25V
PL0502S-8R2M	8.2 \pm 20%	1.40	0.170	100KHz/0.25V
PL0502S-100M	10 \pm 20%	1.30	0.200	100KHz/0.25V
PL0502S-120M	12 \pm 20%	1.10	0.230	100KHz/0.25V
PL0502S-150M	15 \pm 20%	1.05	0.250	100KHz/0.25V
PL0502S-180M	18 \pm 20%	1.00	0.300	100KHz/0.25V
PL0502S-220M	22 \pm 20%	0.90	0.350	100KHz/0.25V
PL0502S-270M	27 \pm 20%	0.85	0.400	100KHz/0.25V
PL0502S-330M	33 \pm 20%	0.75	0.500	100KHz/0.25V
PL0502S-390M	39 \pm 20%	0.70	0.550	100KHz/0.25V
PL0502S-470M	47 \pm 20%	0.60	0.650	100KHz/0.25V
PL0502S-560M	56 \pm 20%	0.55	0.750	100KHz/0.25V
PL0502S-680M	68 \pm 20%	0.50	0.950	100KHz/0.25V
PL0502S-820M	82 \pm 20%	0.45	1.200	100KHz/0.25V
PL0502S-101M	100 \pm 20%	0.40	1.400	100KHz/0.25V
PL0502S-121M	120 \pm 20%	0.35	1.750	100KHz/0.25V
PL0502S-151M	150 \pm 20%	0.25	2.000	100KHz/0.25V
PL0502S-181M	180 \pm 20%	0.22	2.600	100KHz/0.25V
PL0502S-221M	220 \pm 20%	0.20	3.000	100KHz/0.25V
PL0502S-271M	270 \pm 20%	0.18	3.700	100KHz/0.25V
PL0502S-331M	330 \pm 20%	0.17	4.300	100KHz/0.25V
PL0502S-391M	390 \pm 20%	0.16	6.000	100KHz/0.25V
PL0502S-471M	470 \pm 20%	0.15	6.700	100KHz/0.25V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (Ω) Max	Test Frequency
PL0502S-561M	560 \pm 20%	0.14	8.150	100KHz/0.25V
PL0502S-681M	680 \pm 20%	0.13	8.980	100KHz/0.25V
PL0502S-821M	820 \pm 20%	0.12	11.240	100KHz/0.25V
PL0502S-102M	1000 \pm 20%	0.11	15.250	100KHz/0.25V
PL0502S-122M	1200 \pm 20%	0.10	16.750	100KHz/0.25V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (Ω) Max	Test Frequency
PL0503S-1R0N	1 \pm 30%	4.50	0.030	100KHz/0.25V
PL0503S-1R2N	1.2 \pm 30%	4.20	0.030	100KHz/0.25V
PL0503S-1R5N	1.5 \pm 30%	4.10	0.030	100KHz/0.25V
PL0503S-1R8N	1.8 \pm 30%	3.70	0.030	100KHz/0.25V
PL0503S-2R2M	2.2 \pm 20%	3.50	0.030	100KHz/0.25V
PL0503S-2R7M	2.7 \pm 20%	3.20	0.040	100KHz/0.25V
PL0503S-3R3M	3.3 \pm 20%	2.80	0.050	100KHz/0.25V
PL0503S-3R9M	3.9 \pm 20%	2.60	0.060	100KHz/0.25V
PL0503S-4R7M	4.7 \pm 20%	2.50	0.070	100KHz/0.25V
PL0503S-5R6M	5.6 \pm 20%	2.40	0.080	100KHz/0.25V
PL0503S-6R8M	6.8 \pm 20%	2.20	0.090	100KHz/0.25V
PL0503S-8R2M	8.2 \pm 20%	2.00	0.100	100KHz/0.25V
PL0503S-100M	10 \pm 20%	1.80	0.120	100KHz/0.25V
PL0503S-120M	12 \pm 20%	1.75	0.130	100KHz/0.25V
PL0503S-150M	15 \pm 20%	1.70	0.150	100KHz/0.25V
PL0503S-180M	18 \pm 20%	1.60	0.180	100KHz/0.25V
PL0503S-220M	22 \pm 20%	1.50	0.220	100KHz/0.25V
PL0503S-270M	27 \pm 20%	1.40	0.240	100KHz/0.25V
PL0503S-330M	33 \pm 20%	1.10	0.300	100KHz/0.25V
PL0503S-390M	39 \pm 20%	1.00	0.400	100KHz/0.25V
PL0503S-470M	47 \pm 20%	0.90	0.430	100KHz/0.25V
PL0503S-560M	56 \pm 20%	0.85	0.500	100KHz/0.25V
PL0503S-680M	68 \pm 20%	0.80	0.600	100KHz/0.25V
PL0503S-820M	82 \pm 20%	0.65	0.800	100KHz/0.25V
PL0503S-101M	100 \pm 20%	0.60	0.900	100KHz/0.25V
PL0503S-121M	120 \pm 20%	0.58	1.000	100KHz/0.25V
PL0503S-151M	150 \pm 20%	0.43	1.300	100KHz/0.25V
PL0503S-181M	180 \pm 20%	0.41	1.500	100KHz/0.25V
PL0503S-221M	220 \pm 20%	0.38	2.000	100KHz/0.25V
PL0503S-271M	270 \pm 20%	0.35	2.500	100KHz/0.25V
PL0503S-331M	330 \pm 20%	0.28	3.200	100KHz/0.25V
PL0503S-391M	390 \pm 20%	0.26	3.500	100KHz/0.25V
PL0503S-471M	470 \pm 20%	0.20	4.200	100KHz/0.25V
PL0503S-561M	560 \pm 20%	0.19	4.500	100KHz/0.25V
PL0503S-681M	680 \pm 20%	0.18	6.000	100KHz/0.25V
PL0503S-821M	820 \pm 20%	0.15	6.500	100KHz/0.25V
PL0503S-102M	1000 \pm 20%	0.13	8.000	100KHz/0.25V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (Ω) Max	Test Frequency
PL0503S-122M	1200 \pm 20%	0.12	12.500	100KHz/0.25V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (Ω) Max	Test Frequency
PL0504S-1R0N	1 \pm 30%	5.90	0.015	100KHz/0.25V
PL0504S-1R2N	1.2 \pm 30%	5.20	0.020	100KHz/0.25V
PL0504S-1R5N	1.5 \pm 30%	4.70	0.025	100KHz/0.25V
PL0504S-1R8N	1.8 \pm 30%	4.00	0.030	100KHz/0.25V
PL0504S-2R2M	2.2 \pm 20%	3.80	0.035	100KHz/0.25V
PL0504S-2R7M	2.7 \pm 20%	3.40	0.040	100KHz/0.25V
PL0504S-3R3M	3.3 \pm 20%	3.30	0.045	100KHz/0.25V
PL0504S-3R9M	3.9 \pm 20%	2.90	0.050	100KHz/0.25V
PL0504S-4R7M	4.7 \pm 20%	2.80	0.060	100KHz/0.25V
PL0504S-5R6M	5.6 \pm 20%	2.40	0.070	100KHz/0.25V
PL0504S-6R8M	6.8 \pm 20%	2.10	0.080	100KHz/0.25V
PL0504S-8R2M	8.2 \pm 20%	2.00	0.090	100KHz/0.25V
PL0504S-100M	10 \pm 20%	1.44	0.100	100KHz/0.25V
PL0504S-120M	12 \pm 20%	1.40	0.120	100KHz/0.25V
PL0504S-150M	15 \pm 20%	1.30	0.140	100KHz/0.25V
PL0504S-180M	18 \pm 20%	1.23	0.150	100KHz/0.25V
PL0504S-220M	22 \pm 20%	1.11	0.180	100KHz/0.25V
PL0504S-270M	27 \pm 20%	0.97	0.200	100KHz/0.25V
PL0504S-330M	33 \pm 20%	0.88	0.230	100KHz/0.25V
PL0504S-390M	39 \pm 20%	0.80	0.320	100KHz/0.25V
PL0504S-470M	47 \pm 20%	0.72	0.370	100KHz/0.25V
PL0504S-560M	56 \pm 20%	0.68	0.420	100KHz/0.25V
PL0504S-680M	68 \pm 20%	0.61	0.460	100KHz/0.25V
PL0504S-820M	82 \pm 20%	0.58	0.600	100KHz/0.25V
PL0504S-101M	100 \pm 20%	0.52	0.700	100KHz/0.25V
PL0504S-121M	120 \pm 20%	0.48	0.930	100KHz/0.25V
PL0504S-151M	150 \pm 20%	0.40	1.100	100KHz/0.25V
PL0504S-181M	180 \pm 20%	0.38	1.380	100KHz/0.25V
PL0504S-221M	220 \pm 20%	0.35	1.570	100KHz/0.25V
PL0504S-271M	270 \pm 20%	0.32	1.650	100KHz/0.25V
PL0504S-331M	330 \pm 20%	0.28	1.700	100KHz/0.25V
PL0504S-391M	390 \pm 20%	0.26	1.800	100KHz/0.25V
PL0504S-471M	470 \pm 20%	0.23	2.300	100KHz/0.25V
PL0504S-561M	560 \pm 20%	0.20	2.500	100KHz/0.25V
PL0504S-681M	680 \pm 20%	0.19	3.000	100KHz/0.25V
PL0504S-821M	820 \pm 20%	0.16	4.500	100KHz/0.25V
PL0504S-102M	1000 \pm 20%	0.14	4.800	100KHz/0.25V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (Ω) Max	Test Frequency
PL0703S-1R0N	1 \pm 30%	8.85	0.030	100KHz/0.25V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (Ω) Max	Test Frequency
PL0703S-1R2N	1.2 \pm 30%	7.85	0.040	100KHz/0.25V
PL0703S-1R5N	1.5 \pm 30%	6.96	0.050	100KHz/0.25V
PL0703S-1R8N	1.8 \pm 30%	5.46	0.050	100KHz/0.25V
PL0703S-2R2M	2.2 \pm 20%	4.88	0.050	100KHz/0.25V
PL0703S-2R7M	2.7 \pm 20%	4.32	0.060	100KHz/0.25V
PL0703S-3R3M	3.3 \pm 20%	3.71	0.060	100KHz/0.25V
PL0703S-3R9M	3.9 \pm 20%	3.70	0.060	100KHz/0.25V
PL0703S-4R7M	4.7 \pm 20%	3.52	0.070	100KHz/0.25V
PL0703S-5R6M	5.6 \pm 20%	2.86	0.070	100KHz/0.25V
PL0703S-6R8M	6.8 \pm 20%	2.55	0.080	100KHz/0.25V
PL0703S-8R2M	8.2 \pm 20%	2.44	0.080	100KHz/0.25V
PL0703S-100M	10 \pm 20%	1.44	0.080	100KHz/0.25V
PL0703S-120M	12 \pm 20%	1.39	0.090	100KHz/0.25V
PL0703S-150M	15 \pm 20%	1.24	0.100	100KHz/0.25V
PL0703S-180M	18 \pm 20%	1.12	0.110	100KHz/0.25V
PL0703S-220M	22 \pm 20%	1.07	0.130	100KHz/0.25V
PL0703S-270M	27 \pm 20%	0.94	0.150	100KHz/0.25V
PL0703S-330M	33 \pm 20%	0.85	0.170	100KHz/0.25V
PL0703S-390M	39 \pm 20%	0.74	0.220	100KHz/0.25V
PL0703S-470M	47 \pm 20%	0.68	0.250	100KHz/0.25V
PL0703S-560M	56 \pm 20%	0.64	0.280	100KHz/0.25V
PL0703S-680M	68 \pm 20%	0.59	0.330	100KHz/0.25V
PL0703S-820M	82 \pm 20%	0.54	0.410	100KHz/0.25V
PL0703S-101M	100 \pm 20%	0.51	0.480	100KHz/0.25V
PL0703S-121M	120 \pm 20%	0.49	0.540	100KHz/0.25V
PL0703S-151M	150 \pm 20%	0.40	0.750	100KHz/0.25V
PL0703S-181M	180 \pm 20%	0.36	1.020	100KHz/0.25V
PL0703S-221M	220 \pm 20%	0.31	1.200	100KHz/0.25V
PL0703S-271M	270 \pm 20%	0.29	1.310	100KHz/0.25V
PL0703S-331M	330 \pm 20%	0.28	1.500	100KHz/0.25V
PL0703S-391M	390 \pm 20%	0.26	1.800	100KHz/0.25V
PL0703S-471M	470 \pm 20%	0.23	1.950	100KHz/0.25V
PL0703S-561M	560 \pm 20%	0.21	2.300	100KHz/0.25V
PL0703S-681M	680 \pm 20%	0.13	2.700	100KHz/0.25V
PL0703S-821M	820 \pm 20%	0.11	3.200	100KHz/0.25V
PL0703S-102M	1000 \pm 20%	0.08	3.800	100KHz/0.25V
PL0703S-122M	1200 \pm 20%	0.07	6.350	100KHz/0.25V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (Ω) Max	Test Frequency
PL0705S-1R0N	1 \pm 30%	11.25	0.030	100KHz/0.25V
PL0705S-1R2N	1.2 \pm 30%	9.87	0.030	100KHz/0.25V
PL0705S-1R5N	1.5 \pm 30%	8.35	0.040	100KHz/0.25V
PL0705S-1R8N	1.8 \pm 30%	7.12	0.040	100KHz/0.25V
PL0705S-2R2M	2.2 \pm 20%	6.52	0.050	100KHz/0.25V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (Ω) Max	Test Frequency
PL0705S-2R7M	2.7 \pm 20%	6.06	0.060	100KHz/0.25V
PL0705S-3R3M	3.3 \pm 20%	5.26	0.060	100KHz/0.25V
PL0705S-3R9M	3.9 \pm 20%	4.68	0.060	100KHz/0.25V
PL0705S-4R7M	4.7 \pm 20%	4.54	0.070	100KHz/0.25V
PL0705S-5R6M	5.6 \pm 20%	4.25	0.070	100KHz/0.25V
PL0705S-6R8M	6.8 \pm 20%	3.45	0.070	100KHz/0.25V
PL0705S-8R2M	8.2 \pm 20%	3.10	0.070	100KHz/0.25V
PL0705S-100M	10 \pm 20%	2.30	0.070	100KHz/0.25V
PL0705S-120M	12 \pm 20%	2.00	0.080	100KHz/0.25V
PL0705S-150M	15 \pm 20%	1.80	0.090	100KHz/0.25V
PL0705S-180M	18 \pm 20%	1.60	0.100	100KHz/0.25V
PL0705S-220M	22 \pm 20%	1.50	0.110	100KHz/0.25V
PL0705S-270M	27 \pm 20%	1.30	0.120	100KHz/0.25V
PL0705S-330M	33 \pm 20%	1.20	0.130	100KHz/0.25V
PL0705S-390M	39 \pm 20%	1.10	0.160	100KHz/0.25V
PL0705S-470M	47 \pm 20%	1.10	0.180	100KHz/0.25V
PL0705S-560M	56 \pm 20%	0.94	0.240	100KHz/0.25V
PL0705S-680M	68 \pm 20%	0.85	0.280	100KHz/0.25V
PL0705S-820M	82 \pm 20%	0.78	0.370	100KHz/0.25V
PL0705S-101M	100 \pm 20%	0.72	0.430	100KHz/0.25V
PL0705S-121M	120 \pm 20%	0.66	0.470	100KHz/0.25V
PL0705S-151M	150 \pm 20%	0.58	0.640	100KHz/0.25V
PL0705S-181M	180 \pm 20%	0.51	0.710	100KHz/0.25V
PL0705S-221M	220 \pm 20%	0.49	0.960	100KHz/0.25V
PL0705S-271M	270 \pm 20%	0.42	1.110	100KHz/0.25V
PL0705S-331M	330 \pm 20%	0.40	1.260	100KHz/0.25V
PL0705S-391M	390 \pm 20%	0.36	1.770	100KHz/0.25V
PL0705S-471M	470 \pm 20%	0.34	1.960	100KHz/0.25V
PL0705S-561M	560 \pm 20%	0.33	2.000	100KHz/0.25V
PL0705S-681M	680 \pm 20%	0.32	2.200	100KHz/0.25V
PL0705S-821M	820 \pm 20%	0.25	2.900	100KHz/0.25V
PL0705S-102M	1000 \pm 20%	0.20	3.900	100KHz/0.25V
PL0705S-122M	1200 \pm 20%	0.18	5.690	100KHz/0.25V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (Ω) Max	Test Frequency
PL1004S-1R0N	1 \pm 30%	12.25	0.020	100KHz/0.25V
PL1004S-1R5N	1.5 \pm 30%	9.86	0.030	100KHz/0.25V
PL1004S-2R2M	2.2 \pm 20%	7.48	0.030	100KHz/0.25V
PL1004S-3R3M	3.3 \pm 20%	6.21	0.040	100KHz/0.25V
PL1004S-4R7M	4.7 \pm 20%	5.43	0.040	100KHz/0.25V
PL1004S-6R8M	6.8 \pm 20%	4.56	0.053	100KHz/0.25V
PL1004S-100M	10 \pm 20%	2.38	0.053	100KHz/0.25V
PL1004S-120M	12 \pm 20%	2.13	0.061	100KHz/0.25V
PL1004S-150M	15 \pm 20%	1.87	0.070	100KHz/0.25V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (Ω) Max	Test Frequency
PL1004S-180M	18 \pm 20%	1.73	0.081	100KHz/0.25V
PL1004S-220M	22 \pm 20%	1.60	0.088	100KHz/0.25V
PL1004S-270M	27 \pm 20%	1.44	0.100	100KHz/0.25V
PL1004S-330M	33 \pm 20%	1.26	0.120	100KHz/0.25V
PL1004S-390M	39 \pm 20%	1.20	0.151	100KHz/0.25V
PL1004S-470M	47 \pm 20%	1.10	0.170	100KHz/0.25V
PL1004S-560M	56 \pm 20%	1.01	0.199	100KHz/0.25V
PL1004S-680M	68 \pm 20%	0.91	0.223	100KHz/0.25V
PL1004S-820M	82 \pm 20%	0.85	0.252	100KHz/0.25V
PL1004S-101M	100 \pm 20%	0.74	0.344	100KHz/0.25V
PL1004S-121M	120 \pm 20%	0.69	0.396	100KHz/0.25V
PL1004S-151M	150 \pm 20%	0.61	0.544	100KHz/0.25V
PL1004S-181M	180 \pm 20%	0.56	0.621	100KHz/0.25V
PL1004S-221M	220 \pm 20%	0.53	0.721	100KHz/0.25V
PL1004S-271M	270 \pm 20%	0.45	0.949	100KHz/0.25V
PL1004S-331M	330 \pm 20%	0.42	1.100	100KHz/0.25V
PL1004S-391M	390 \pm 20%	0.38	1.245	100KHz/0.25V
PL1004S-471M	470 \pm 20%	0.35	1.526	100KHz/0.25V
PL1004S-561M	560 \pm 20%	0.32	1.904	100KHz/0.25V
PL1004S-681M	680 \pm 20%	0.31	2.200	100KHz/0.25V
PL1004S-821M	820 \pm 20%	0.30	2.700	100KHz/0.25V

⊕ Electrical Characteristics :

Part No.	Inductance (μ H)	Isat (A) Max	DCR (Ω) Max	Test Frequency
PL1005S-1R0N	1 \pm 30%	15.35	0.010	100KHz/0.25V
PL1005S-1R5N	1.5 \pm 30%	11.58	0.020	100KHz/0.25V
PL1005S-2R2M	2.2 \pm 30%	9.24	0.020	100KHz/0.25V
PL1005S-3R3M	3.3 \pm 30%	7.36	0.030	100KHz/0.25V
PL1005S-4R7M	4.7 \pm 30%	5.67	0.030	100KHz/0.25V
PL1005S-6R8M	6.8 \pm 30%	4.52	0.040	100KHz/0.25V
PL1005S-100M	10 \pm 20%	2.60	0.060	100KHz/0.25V
PL1005S-150M	15 \pm 20%	2.27	0.080	100KHz/0.25V
PL1005S-220M	22 \pm 20%	1.95	0.100	100KHz/0.25V
PL1005S-330M	33 \pm 20%	1.50	0.120	100KHz/0.25V
PL1005S-470M	47 \pm 20%	1.28	0.170	100KHz/0.25V
PL1005S-560M	56 \pm 20%	1.17	0.190	100KHz/0.25V
PL1005S-680M	68 \pm 20%	1.11	0.220	100KHz/0.25V
PL1005S-820M	82 \pm 20%	1.00	0.250	100KHz/0.25V
PL1005S-101M	100 \pm 20%	0.97	0.350	100KHz/0.25V
PL1005S-121M	120 \pm 20%	0.89	0.400	100KHz/0.25V
PL1005S-151M	150 \pm 20%	0.78	0.470	100KHz/0.25V
PL1005S-181M	180 \pm 20%	0.72	0.630	100KHz/0.25V
PL1005S-221M	220 \pm 20%	0.66	0.730	100KHz/0.25V
PL1005S-271M	270 \pm 20%	0.57	0.970	100KHz/0.25V
PL1005S-331M	330 \pm 20%	0.52	1.150	100KHz/0.25V

⊕ Electrical Characteristics :

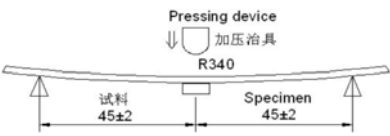
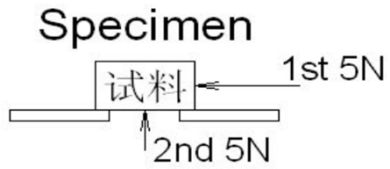
Part No.	Inductance (μ H)	Isat (A) Max	DCR (Ω) Max	Test Frequency
PL1005S-391M	390 \pm 20%	0.48	1.300	100KHz/0.25V
PL1005S-471M	470 \pm 20%	0.42	1.480	100KHz/0.25V
PL1005S-561M	560 \pm 20%	0.33	1.900	100KHz/0.25V
PL1005S-681M	680 \pm 20%	0.28	2.250	100KHz/0.25V
PL1005S-821M	820 \pm 20%	0.24	2.550	100KHz/0.25V

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	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。 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.	Change from an initial value L : within $\pm 10\%$
温度循环 Temperature cycle	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。 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.	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;

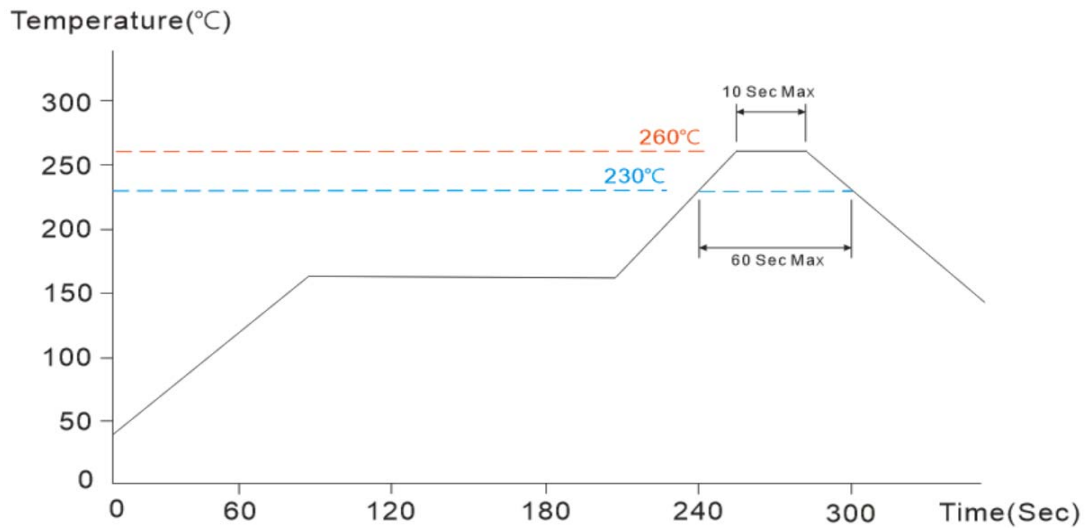
Ambient temperature : $20\pm 2^{\circ}\text{C}$, Relative humidity: $65\pm 5\%$, Air pressure: 86kPa to 106kPa

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

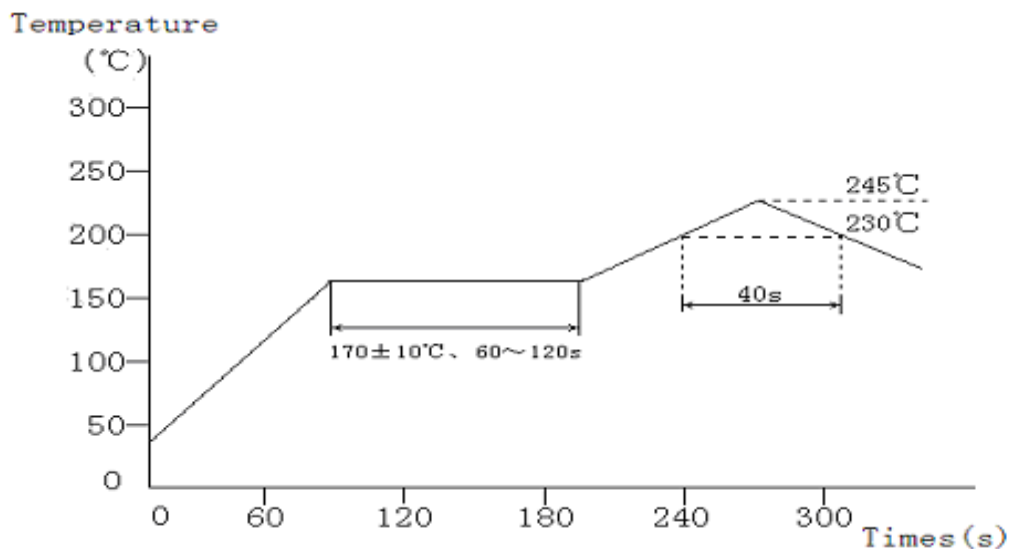


No mechanical and electrical defects are found after testing based on the above profile and keeping under the conditions of room temperature and humidity for 2 hours.

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

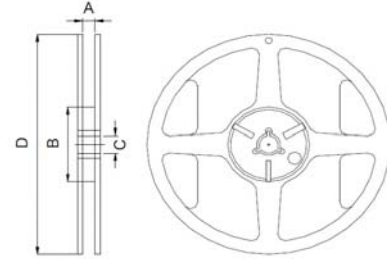
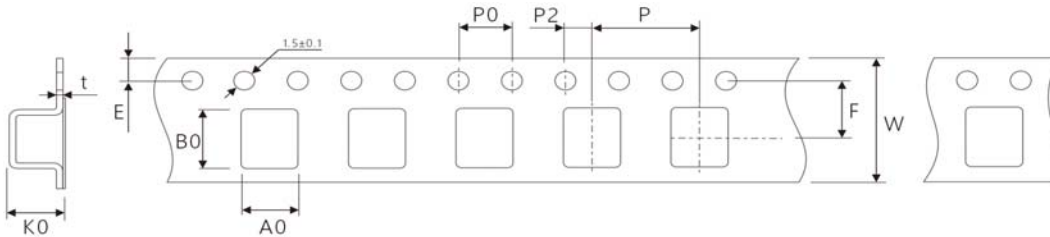


The recommended reflow profile is based on the testing instruments used. Solder ability will depend on the testing equipments, reflow conditions, testing method, etc. So it is necessary to make a confirmation of them when the reflow conditions are set up.

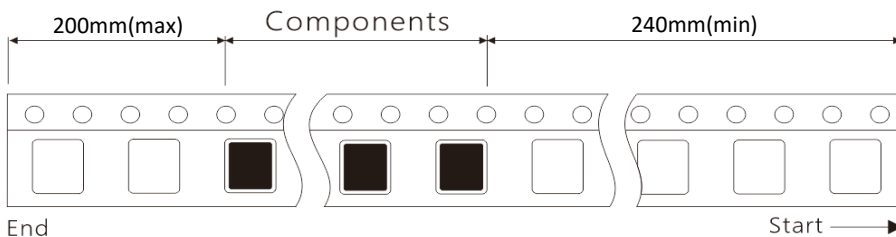
However halogen lamp shall be used, side heat will be beyond range of resistance heat, so we can't recommend it.

⊕ Reel Dimension(m/m)

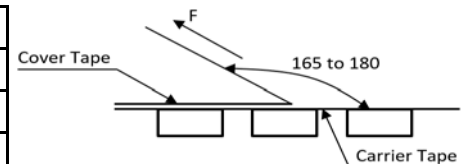
Item	A	B	C	D
PL0301F\0302	12.5±1	100±1	13±1	330±1
PL0403	12.5±1	100±1	13±1	330±1
PL0502\0503\0504	12.5±1	100±1	13±1	330±1
PL0703\0705	16.5±1	100±1	13±1	330±1
PL1004\1005	24.5±1	100±1	13±1	330±1


⊕ Taping Dimension(m/m)


Item	W	Ao	Bo	Ko	E	F	P	P0	P2	t
PL0301F	12.0±0.3	3.1±0.1	3.6±0.1	1.8±0.1	1.75±0.1	5.5±0.1	8.0±0.1	4.0±0.1	2.0±0.1	0.3±0.05
PL0302	12.0±0.3	3.1±0.1	3.6±0.1	2.2±0.1	1.75±0.1	5.5±0.1	8.0±0.1	4.0±0.1	2.0±0.1	0.3±0.05
PL0403	12.0±0.3	4.3±0.1	4.85±0.1	3.7±0.1	1.75±0.1	5.5±0.1	8.0±0.1	4.0±0.1	2.0±0.1	0.35±0.05
PL0502	12.0±0.3	5.5±0.1	5.95±0.1	2.5±0.1	1.75±0.1	5.5±0.1	8.0±0.1	4.0±0.1	2.0±0.1	0.3±0.05
PL0503	12.0±0.3	5.4±0.1	6.0±0.1	3.3±0.1	1.75±0.1	5.5±0.1	8.0±0.1	4.0±0.1	2.0±0.1	0.3±0.05
PL0504	12.0±0.3	5.4±0.1	5.9±0.1	4.7±0.1	1.75±0.1	5.5±0.1	8.0±0.1	4.0±0.1	2.0±0.1	0.3±0.05
PL0703	16.0±0.3	7.3±0.1	8.0±0.1	3.8±0.1	1.75±0.1	7.5±0.1	12.0±0.1	4.0±0.1	2.0±0.1	0.4±0.05
PL0705	16.0±0.3	7.3±0.1	7.3±0.1	4.1±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
PL1004	24.0±0.3	8.3±0.1	9.6±0.1	4.3±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
PL1005	24.0±0.3	9.4±0.1	10.3±0.1	5.8±0.1	1.75±0.1	11.5±0.1	12.0±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
PL0301F	3,000 PCS / Reel	9,000 PCS / Box	18,000 PCS / Box
PL0302	2,000 PCS / Reel	6,000 PCS / Box	12,000 PCS / Box
PL0403	1,500 PCS / Reel	4,500 PCS / Box	9,000 PCS / Box
PL0502\0503\0504	1,500 PCS / Reel	4,500 PCS / Box	9,000 PCS / Box
PL0703\0705	1,000 PCS / Reel	3,000 PCS / Box	6,000 PCS / Box
PL1004\1005	1,000 PCS / Reel	3,000 PCS / Box	6,000 PCS / Box

