

■贴片功率电感器

SMD power inductor

◆特征

Feature

- * 高性能
High performance.
- * 磁胶屏蔽结构
Magnetic adhesive shielding structure.
- * 高可靠性
High reliability.
- * 高绝缘能力
High insulation capacity.
- * 符合 RoHS
Compliance with RoHS.
- * 工作温度范围: $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (包含自身发热)
Operating Temperature Range, Including self-heating temperature rise: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$.

◆应用

Application

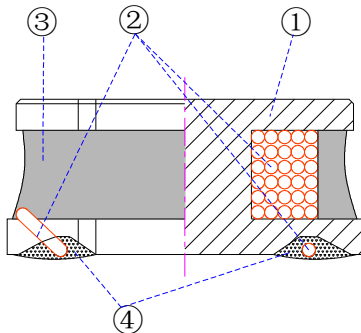
- * 手机、DC/DC 转换、AV 设备、OA 设备、家电、信息服务等电子设备。
Electronic devices such as mobile phones, DC/DC converters, AV equipment, OA equipment, household appliances, and information services.

◆型号表示法

Part Number

PRS	3015	-	1R0	M	T	***
①	②		③	④	⑤	⑥

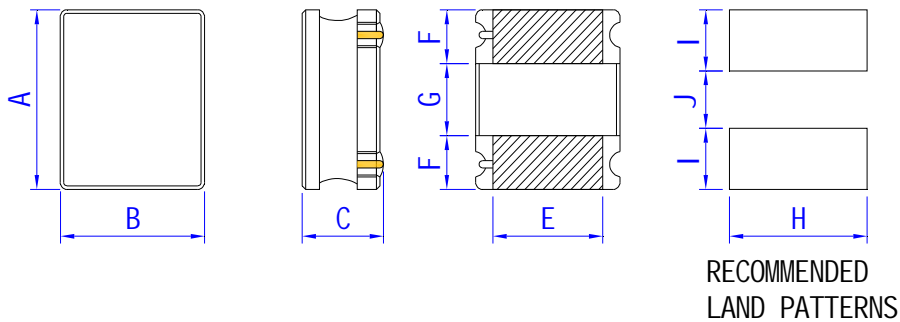
① 产品代号 Product Code		② 尺寸代码 Dimensions code				③ 电感量标称值 Inductance		④ 电感量公差代码 Tolerance code	
PRS	PRS 系列贴片功率电感器 PRS Series SMD Power Inductor	2512	2.5*2.1*1.25mm	5040	5*5*4.2mm	1R0	1.0μH	M	±20%
		3015	3*3*1.5 mm	6020	6*6*2.0mm	100	10μH	N	±30%
		4018	4*4*1.8 mm	6028	6*6*2.8mm	101	100μH		
		4020	4*4*2.0mm	6045	6*6*4.5 mm				
		4030	4*4*3.0mm	8040	8*8*4.0 mm				
		5020	5*5*2.1mm						
⑤ 包装方式 Packaging		⑥ 内部代码 Internal code							
T	卷带盘装 Tape & Reel	***	内部代码 Internal code						

◆产品结构
Product Structure


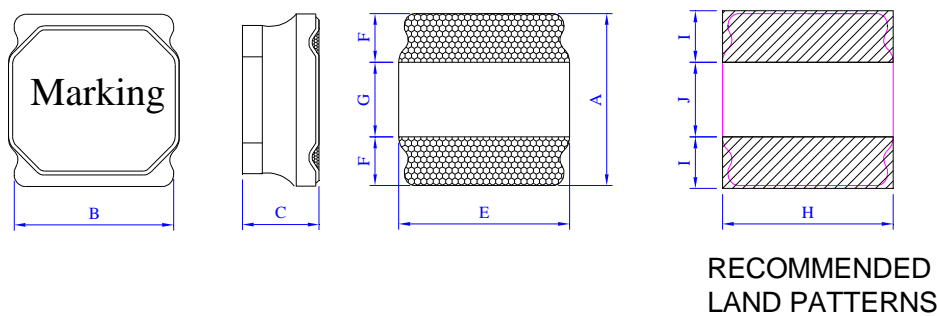
No.	部位 Component	材料 Material
①	磁芯 Core	镍锌铁氧体磁芯 Ni-Zn ferrite core
②	线圈 Winding	漆包线 Enamelled wire
③	保护层 Shield	导磁胶 Magnetic glue
④	电极 Electrode	底层-银 Substrate-Ag 镀层-镍层 Base plating-Ni 镀层-锡层 Base plating-Sn 表层-锡/铜 Surface solder-Sn/Cu

◆规格尺寸
Dimension

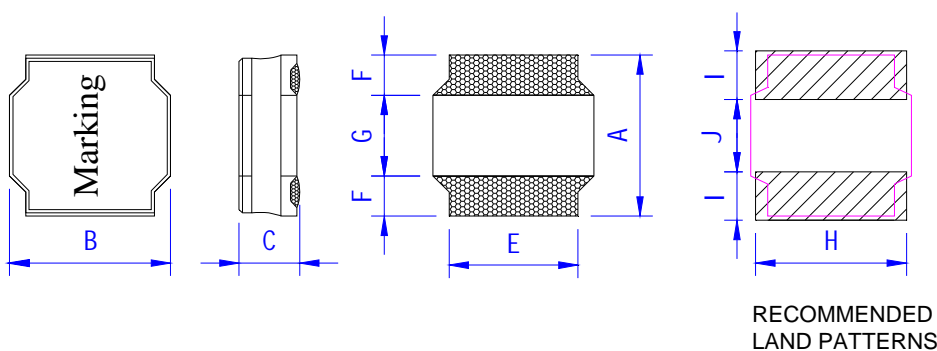
PRS2512 series



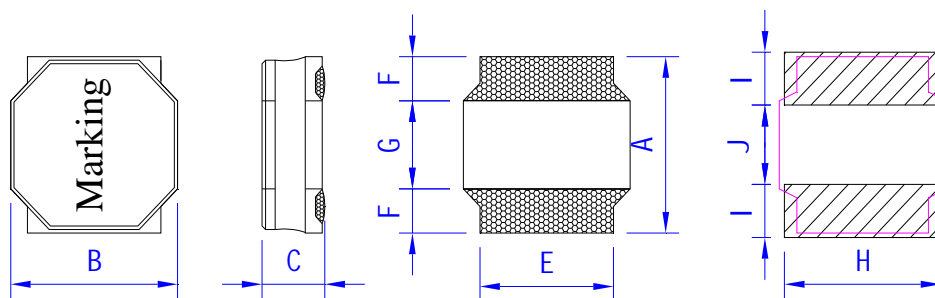
PRS3015 series



PRS4018, PRS4030, PRS5020, PRS6020, PRS6028, PRS6045, PRS8040 series



PRS4020, PRS4026, PRS5040 series



RECOMMENDED
LAND PATTERNS

Part No	A(mm)	B(mm)	C(mm)	E(mm)	F(mm)	G(mm)	H(mm)	I(mm)	J(mm)
2512	2.50±0.20	2.10±0.20	1.25 Max	1.60 typ.	0.85 typ.	0.80 typ.	2.10 typ.	0.850 typ.	0.80 typ.
3015	3.00±0.20	3.00±.20	1.50 Max	2.80 typ.	0.85 typ.	1.30 typ.	3.00 typ.	0.90 typ.	1.30 typ.
4018	4.00±0.20	4.00±0.20	1.80 Max	3.40 typ.	1.20 typ.	1.60 typ.	3.60 typ.	1.40 typ.	1.60 typ.
4020	4.00±0.20	4.00±0.20	2.00 Max	3.40 typ.	1.20 typ.	1.60 typ.	3.60 typ.	1.40 typ.	1.60 typ.
4026	4.00±0.20	4.00±0.20	2.60 Max	3.40 typ.	1.20 typ.	1.60 typ.	3.60 typ.	1.40 typ.	1.60 typ.
4030	4.00±0.20	4.00±0.20	3.00 Max	3.20 typ.	1.20 typ.	1.60 typ.	3.60 typ.	1.40 typ.	1.60 typ.
5020	5.00±0.20	5.00±0.20	2.10 Max	4.00 typ.	1.20 typ.	2.10 typ.	4.40 typ.	1.60 typ.	2.40 typ.
5040	5.00±0.20	5.00±0.20	4.20 Max	4.00 typ.	1.50 typ.	2.00 typ.	4.40 typ.	1.60 typ.	2.40 typ.
6020	6.00±0.20	6.00±0.20	2.00 Max	5.00 typ.	1.50 typ.	3.00 typ.	5.70 typ.	1.90 typ.	2.60 typ.
6028	6.00±0.20	6.00±0.20	2.80 Max	5.00 typ.	1.50 typ.	3.00 typ.	5.70 typ.	1.90 typ.	2.60 typ.
6045	6.00±0.20	6.00±0.20	4.50 Max	4.90±0.30	1.60±0.30	2.70±0.30	5.70 typ.	1.90 typ.	2.60 typ.
8040	8.00±0.20	8.00±0.20	4.00±0.30	6.30±0.30	2.00±0.30	4.00±0.30	7.50 typ.	2.40 typ.	3.60 typ.

◆电性能参数
Electrical Characteristics
PRS2512 Series

型号 Part NO	电感量 Ls (μH)		直流电阻 RDC (Ω)		饱和电流 Isat (A)	温升电流 Irms (A)	印字 Marking
	Nominal value	Tol.			Max.	Max.	
PRS2512-R24NT	0.24	30%	0.034	Max.	5.00	---	
PRS2512-R33NT	0.33	30%	0.049	Max.	4.00	3.35	
PRS2512-R47NT	0.47	30%	0.061	Max.	3.82	2.15	
PRS2512-R68NT	0.68	30%	0.074	Max.	3.28	1.96	
PRS2512-1R0_T	1.00	N:±30% M:±20%	0.090	Max.	2.59	1.93	
PRS2512-1R5_T	1.50		0.147	Max.	2.24	1.40	
PRS2512-2R2_T	2.20		0.216	Max.	1.85	1.15	
PRS2512-3R3_T	3.30		0.264	Max.	1.61	1.04	
PRS2512-4R7_T	4.70		0.377	Max.	1.12	0.84	
PRS2512-5R6_T	5.60		0.538	Max.	1.11	0.73	
PRS2512-6R8_T	6.80		0.581	Max.	0.98	0.69	
PRS2512-8R2_T	8.20		0.658	Max.	0.98	0.65	
PRS2512-100_T	10.00		0.690	Max.	0.79	0.62	
PRS2512-220_T	22.00		1.976	Max.	0.53	0.38	

Isat: 指使电感量比初始值下降约 30% 的电流值, 加载电流的时间 1 秒以内。

The DC current at which the inductance drops approximate 30% from its value without current, Load current time within 1 s.

Irms: 指使电感器表面温度上升 40℃ 的电流值。

The DC current is inductor surface temperature to rise by 40℃.

额定工作使用电压: DC50V

Rated working voltage: DC50V

项目 Item	测试条件 Test condition	测试仪器 Test equipment
电感量 Ls	1MHz/1V	HP4263B\IM3532-50 or equivalent
直流电阻 RDC	直流电 direct-current	HP4263B\RM3545 or equivalent
饱和电流 Isat	1MHz/1V	Microtest 6379 & 6220 or equivalent
温升电流 Irms	ambient temperature 20℃	Microtest 6379 & 6220 or equivalent

PRS3015 series

型号 Part NO	电感量 Ls (μH)		直流电阻 RDC (Ω)		饱和电流 Isat (A)	温升电流 I _{rms} (A)	印字 Marking
	Nominal value	Tol.			Max.	Max.	
PRS3015-R22NT	0.22	30%	0.016	±30%	5.00	3.50	T
PRS3015-R47NT	0.47	30%	0.020	±30%	3.90	2.60	S
PRS3015-R68NT	0.68	30%	0.025	±30%	3.00	2.45	U
PRS3015-1R0_T	1.00	N: ±30% M: ±20%	0.030	±20%	2.32	2.35	A
PRS3015-1R5_T	1.50		0.040	±20%	2.30	1.70	B
PRS3015-2R2_T	2.20		0.060	±20%	1.60	1.60	C
PRS3015-2R7_T	2.70		0.075	±20%	1.52	1.43	D
PRS3015-3R3_T	3.30		0.080	±20%	1.32	1.36	E
PRS3015-4R7_T	4.70		0.120	±20%	1.10	1.09	H
PRS3015-5R6_T	5.60		0.140	±20%	0.95	0.86	G
PRS3015-6R2_T	6.20		0.160	±20%	1.00	0.86	F
PRS3015-6R8_T	6.80		0.160	±20%	0.87	0.85	I
PRS3015-8R2_T	8.20		0.220	±20%	0.80	0.80	J
PRS3015-100_T	10.00		0.230	±20%	0.72	0.77	K
PRS3015-150_T	15.00		0.360	±20%	0.66	0.65	L
PRS3015-180_T	18.00		0.430	±20%	0.56	0.59	M
PRS3015-220_T	22.00		0.520	±20%	0.52	0.57	N
PRS3015-330_T	33.00		0.840	±20%	0.44	0.43	O
PRS3015-390_T	39.00		1.100	±20%	0.40	0.40	P
PRS3015-470_T	47.00		1.340	±20%	0.35	0.35	

Isat: 指使电感量比初始值下降约 30% 的电流值, 加载电流的时间 1 秒以内。

The DC current at which the inductance drops approximate 30% from its value without current, Load current time within 1 s.

I_{rms}: 指使电感器表面温度上升 40℃ 的电流值。

The DC current is inductor surface temperature to rise by 40℃.

额定工作使用电压: DC50V

Rated working voltage: DC50

项目 Item	测试条件 Test condition	测试仪器 Test equipment
电感量 Ls	100KHz/500mV	HP4263B\IM3532-50 or equivalent
直流电阻 RDC	直流电 direct-current	HP4263B\IRM3545 or equivalent
饱和电流 Isat	100KHz/500mV	Microtest 6379 & 6220 or equivalent
温升电流 I _{rms}	ambient temperature 20℃	Microtest 6379 & 6220 or equivalent

PRS4018 series

型号 Part NO	电感量 Ls (μH)		直流电阻 RDC (Ω)		饱和电流 Isat (A)	温升电流 Irms (A)	印字 Marking
	Nominal value	Tol.			Max.	Max.	
PRS4018-R24NT	0.24	30%	0.014	±30%	9.00	5.00	R24
PRS4018-R47NT	0.47	30%	0.021	±30%	6.50	4.00	R47
PRS4018-R68NT	0.68	30%	0.020	±30%	4.90	3.30	R68
PRS4018-1R0_T	1.00	N: ±30% M: ±20%	0.030	±30%	4.30	2.00	1R0
PRS4018-1R5_T	1.50		0.040	±30%	3.35	1.80	1R5
PRS4018-2R2_T	2.20		0.045	±30%	2.70	1.65	2R2
PRS4018-2R7_T	2.70		0.058	±30%	2.30	1.45	2R7
PRS4018-3R3_T	3.30		0.070	±30%	2.45	1.23	3R3
PRS4018-4R7_T	4.70		0.090	±30%	1.70	1.20	4R7
PRS4018-5R6_T	5.60		0.107	±30%	1.60	1.50	5R6
PRS4018-6R8_T	6.80		0.110	±30%	1.45	1.06	6R8
PRS4018-8R2_T	8.20		0.160	±30%	1.35	0.90	8R2
PRS4018-100_T	10.00		0.180	±30%	1.30	0.84	100
PRS4018-120_T	12.00		0.190	±30%	1.10	1.00	120
PRS4018-150_T	15.00		0.250	±30%	0.94	0.65	150
PRS4018-220_T	22.00		0.360	±30%	0.80	0.59	220
PRS4018-330_T	33.00		0.530	±30%	0.65	0.49	330
PRS4018-390_T	39.00		0.670	±30%	0.60	0.45	390
PRS4018-470_T	47.00		0.650	±30%	0.57	0.42	470
PRS4018-560_T	56.00		0.900	±30%	0.51	0.38	560
PRS4018-680_T	68.00		1.000	±30%	0.47	0.32	680
PRS4018-820_T	82.00		1.300	±30%	0.43	0.28	820
PRS4018-101_T	100.00		1.500	±30%	0.40	0.25	101

Isat: 指使电感量比初始值下降约 30%的电流值, 加载电流的时间 1 秒以内。

The DC current at which the inductance drops approximate 30% from its value without current, Load current time within 1 s.

Irms: 指使电感器表面温度上升 40℃的电流值。

The DC current is inductor surface temperature to rise by 40℃.

额定工作使用电压: <22μH: DC100V; ≥22μH: DC50V

Rated working voltage: <22μH: DC100V; ≥22μH: DC50V

项目 Item	测试条件 Test condition	测试仪器 Test equipment
电感量 Ls	100KHz/500mV	HP4263B\IM3532-50 or equivalent
直流电阻 RDC	直流电 direct-current	HP4263B\IRM3545 or equivalent
饱和电流 Isat	100KHz/500mV	Microtest 6379 & 6220 or equivalent
温升电流 Irms	ambient temperature 20℃	Microtest 6379 & 6220 or equivalent

PRS4020 series

型号 Part NO	电感量 Ls (μH)		直流电阻 RDC (Ω)		饱和电流 Isat (A)	温升电流 Irms (A)	印字 Marking
	Nominal value	Tol.			Max.	Max.	
PRS4020-1R0_T	1.00	N: ±30% M: ±20%	0.029	±30%	4.78	2.15	1R0
PRS4020-1R5_T	1.50		0.035	±30%	4.45	1.98	1R5
PRS4020-2R2_T	2.20		0.040	±30%	3.40	1.85	2R2
PRS4020-3R3_T	3.30		0.070	±30%	3.20	1.40	3R3
PRS4020-4R7_T	4.70		0.075	±30%	2.35	1.34	4R7
PRS4020-5R1_T	5.10		0.085	±30%	2.30	1.27	5R1
PRS4020-5R6_T	5.60		0.090	±30%	2.20	1.22	5R6
PRS4020-6R8_T	6.80		0.125	±30%	2.20	1.04	6R8
PRS4020-8R2_T	8.20		0.155	±30%	1.75	1.04	8R2
PRS4020-100_T	10.00		0.165	±30%	1.60	0.90	100
PRS4020-150_T	15.00		0.230	±30%	1.35	0.77	150
PRS4020-220_T	22.00		0.350	±30%	1.05	0.62	220
PRS4020-270_T	27.00		0.545	±30%	1.02	0.50	270
PRS4020-330_T	33.00		0.550	±30%	0.85	0.49	330
PRS4020-390_T	39.00		0.650	±30%	0.82	0.46	390
PRS4020-470_T	47.00		0.710	±30%	0.74	0.44	470
PRS4020-560_T	56.00		0.800	±30%	0.66	0.41	560
PRS4020-680_T	68.00		1.060	±30%	0.61	0.36	680
PRS4020-820_T	82.00		1.170	±30%	0.50	0.34	820
PRS4020-101_T	100.00		1.550	±30%	0.48	0.31	101

Isat: 指使电感量比初始值下降约 30% 的电流值, 加载电流的时间 1 秒以内。

The DC current at which the inductance drops approximate 30% from its value without current, Load current time within 1 s.

Irms: 指使电感器表面温度上升 40℃ 的电流值。

The DC current is inductor surface temperature to rise by 40℃.

额定工作使用电压: <22μH: DC100V; ≥22μH: DC50V

Rated working voltage: <22μH: DC100V; ≥22μH: DC50V

项目 Item	测试条件 Test condition	测试仪器 Test equipment
电感量 Ls	100KHz/500mV	HP4263B\IM3532-50 or equivalent
直流电阻 RDC	直流电 direct-current	HP4263B\RM3545 or equivalent
饱和电流 Isat	100KHz/500mV	Microtest 6379 & 6220 or equivalent
温升电流 Irms	ambient temperature 20℃	Microtest 6379 & 6220 or equivalent

PRS4026 series

型号 Part NO	电感量 Ls (μH)		直流电阻 RDC (Ω)		饱和电流 Isat (A)	温升电流 Irms (A)	印字 Marking
	Nominal value	Tol.			Max.	Max.	
PRS4026-1R0NT	1.00	N: ±30% M: ±20%	0.018	±30%	3.10	2.80	1R0
PRS4026-1R5NT	1.50		0.022	±30%	2.40	2.30	1R5
PRS4026-2R2MT	2.20		0.030	±30%	2.10	2.00	2R2
PRS4026-3R3MT	3.30		0.037	±30%	1.80	1.70	3R3
PRS4026-4R7MT	4.70		0.055	±30%	1.45	1.60	4R7
PRS4026-6R8MT	6.80		0.065	±30%	1.30	1.50	6R8
PRS4026-100MT	10.00		0.085	±30%	1.00	1.30	100
PRS4026-150MT	15.00		0.110	±30%	0.90	1.10	150
PRS4026-220MT	22.00		0.200	±30%	0.60	0.90	220
PRS4026-330MT	33.00		0.270	±30%	0.54	0.80	330
PRS4026-470MT	47.00		0.400	±30%	0.40	0.65	470
PRS4026-101MT	100.00		0.770	±30%	0.33	0.33	101

Isat: 指使电感量比初始值下降约 30% 的电流值, 加载电流的时间 1 秒以内。

The DC current at which the inductance drops approximate 30% from its value without current, Load current time within 1 s.

Irms: 指使电感器表面温度上升 40℃ 的电流值。

The DC current is inductor surface temperature to rise by 40℃.

额定工作使用电压: <22μH: DC100V; ≥22μH: DC50V

Rated working voltage: <22μH: DC100V; ≥22μH: DC50V

项目 Item	测试条件 Test condition	测试仪器 Test equipment
电感量 Ls	100KHz/500mV	HP4263B\IM3532-50 or equivalent
直流电阻 RDC	直流电 direct-current	HP4263B\RM3545 or equivalent
饱和电流 Isat	100KHz/500mV	Microtest 6379 & 6220 or equivalent
温升电流 Irms	ambient temperature 20℃	Microtest 6379 & 6220 or equivalent

PRS4030 series

型号 Part NO	电感量 Ls (μH)		直流电阻 RDC (Ω)		饱和电流 Isat (A)	温升电流 Irms (A)	印字 Marking
	Nominal value	Tol.			Max.	Max.	
PRS4030-1R0_T	1.00	N: ±30% M: ±20%	0.016	±30%	5.26	4.15	1R0
PRS4030-1R5_T	1.50		0.020	±30%	4.84	3.34	1R5
PRS4030-2R2_T	2.20		0.030	±30%	4.90	3.00	2R2
PRS4030-3R3_T	3.30		0.040	±30%	3.30	2.40	3R3
PRS4030-3R9_T	3.90		0.057	±30%	3.00	2.10	3R9
PRS4030-4R7_T	4.70		0.060	±30%	2.90	2.00	4R7
PRS4030-6R8_T	6.80		0.090	±30%	2.20	1.60	6R8
PRS4030-8R2_T	8.20		0.090	±30%	2.10	1.60	8R2
PRS4030-100_T	10.00		0.100	±30%	1.95	1.50	100
PRS4030-150_T	15.00		0.190	±30%	1.65	1.11	150
PRS4030-220_T	22.00		0.250	±30%	1.30	1.00	220
PRS4030-330_T	33.00		0.330	±30%	1.10	0.84	330
PRS4030-470_T	47.00		0.600	±30%	0.95	0.72	470
PRS4030-680_T	68.00		0.868	±30%	0.72	0.52	680
PRS4030-820_T	82.00		1.060	±30%	0.66	0.47	820
PRS4030-101_T	100.00		1.150	±30%	0.60	0.45	101
PRS4030-121_T	120.00		1.350	±30%	0.57	0.55	121
PRS4030-151_T	150.00		2.350	±30%	0.50	0.35	151

Isat: 指使电感量比初始值下降约 30% 的电流值, 加载电流的时间 1 秒以内。

The DC current at which the inductance drops approximate 30% from its value without current, Load current time within 1 s.

Irms: 指使电感器表面温度上升 40℃ 的电流值。

The DC current is inductor surface temperature to rise by 40℃.

额定工作使用电压: <22μH: DC100V; ≥22μH: DC50V

Rated working voltage: <22μH: DC100V; ≥22μH: DC50V

项目 Item	测试条件 Test condition	测试仪器 Test equipment
电感量 Ls	100KHz/500mV	HP4263B\IM3532-50 or equivalent
直流电阻 RDC	直流电 direct-current	HP4263B\IRM3545 or equivalent
饱和电流 Isat	100KHz/500mV	Microtest 6379 & 6220 or equivalent
温升电流 Irms	ambient temperature 20℃	Microtest 6379 & 6220 or equivalent

PRS5020 series

型号 Part NO	电感量 Ls (μH)		直流电阻 RDC (Ω)		饱和电流 Isat (A)	温升电流 Irms (A)	印字 Marking
	Nominal value	Tol.			Max.	Max.	
PRS5020-1R0_T	1.00	N: ±30% M: ±20%	0.020	±30%	4.40	3.80	1R0
PRS5020-1R5_T	1.50		0.028	±30%	4.10	3.20	1R5
PRS5020-2R2_T	2.20		0.033	±30%	3.20	2.90	2R2
PRS5020-3R3_T	3.30		0.043	±30%	2.55	2.50	3R3
PRS5020-4R7_T	4.70		0.058	±30%	2.50	2.20	4R7
PRS5020-5R6_T	5.60		0.068	±30%	2.30	2.05	5R6
PRS5020-6R8_T	6.80		0.075	±30%	2.05	1.80	6R8
PRS5020-8R2_T	8.20		0.096	±30%	1.85	1.65	8R2
PRS5020-100_T	10.00		0.120	±30%	1.70	1.55	100
PRS5020-150_T	15.00		0.165	±30%	1.35	1.25	150
PRS5020-180_T	18.00		0.200	±30%	1.25	1.15	180
PRS5020-220_T	22.00		0.220	±30%	1.15	1.10	220
PRS5020-330_T	33.00		0.350	±30%	0.92	0.90	330
PRS5020-390_T	39.00		0.410	±30%	0.80	0.80	390
PRS5020-470_T	47.00		0.520	±30%	0.77	0.77	470
PRS5020-560_T	56.00		0.600	±30%	0.77	0.70	560
PRS5020-680_T	68.00		0.680	±30%	0.65	0.64	680
PRS5020-820_T	82.00		0.860	±30%	0.55	0.55	820
PRS5020-101_T	100.00		1.100	±30%	0.53	0.53	101

Isat: 指使电感量比初始值下降约 30% 的电流值, 加载电流的时间 1 秒以内。

The DC current at which the inductance drops approximate 30% from its value without current, Load current time within 1 s.

Irms: 指使电感器表面温度上升 40℃ 的电流值。

The DC current is inductor surface temperature to rise by 40℃.

额定工作使用电压: <22μH: DC100V; ≥22μH: DC50V

Rated working voltage: <22μH: DC100V; ≥22μH: DC50V

项目 Item	测试条件 Test condition	测试仪器 Test equipment
电感量 Ls	100KHz/500mV	HP4263B\IM3532-50 or equivalent
直流电阻 RDC	直流电 direct-current	HP4263B\RM3545 or equivalent
饱和电流 Isat	100KHz/500mV	Microtest 6379 & 6220 or equivalent
温升电流 Irms	ambient temperature 20℃	Microtest 6379 & 6220 or equivalent

PRS5040 series

型号 Part NO	电感量 Ls (μH)		直流电阻 RDC (Ω)		饱和电流 Isat (A)	温升电流 Irms (A)	印字 Marking
	Nominal value	Tol.			Max.	Max.	
PRS5040-1R0_T	1.00	N:±30% M:±20%	0.012	±30%	7.35	4.90	1R0
PRS5040-1R5_T	1.50		0.014	±30%	6.00	4.50	1R5
PRS5040-1R8_T	1.80		0.016	±30%	5.50	4.30	1R8
PRS5040-2R2_T	2.20		0.018	±30%	4.90	3.80	2R2
PRS5040-3R3_T	3.30		0.024	±30%	3.95	3.40	3R3
PRS5040-4R7_T	4.70		0.030	±30%	3.50	3.00	4R7
PRS5040-5R6_T	5.60		0.040	±30%	3.00	2.80	5R6
PRS5040-6R8_T	6.80		0.045	±30%	2.90	2.50	6R8
PRS5040-8R2_T	8.20		0.055	±30%	2.70	2.30	8R2
PRS5040-100_T	10.00		0.066	±30%	2.35	2.10	100
PRS5040-150_T	15.00		0.090	±30%	2.00	2.00	150
PRS5040-220_T	22.00		0.130	±30%	1.60	1.50	220
PRS5040-330_T	33.00		0.200	±30%	1.30	1.20	330
PRS5040-390_T	39.00		0.230	±30%	1.20	1.10	390
PRS5040-470_T	47.00		0.300	±30%	1.00	1.00	470
PRS5040-560_T	56.00		0.330	±30%	0.95	0.85	560
PRS5040-680_T	68.00		0.420	±30%	0.90	0.80	680
PRS5040-820_T	82.00		0.500	±30%	0.80	0.75	820
PRS5040-101_T	100.00		0.620	±30%	0.75	0.70	101
PRS5040-151_T	150.00		0.850	±30%	0.65	0.60	151
PRS5040-181_T	180.00		1.150	±30%	0.50	0.43	181
PRS5040-221_T	220.00		1.200	±30%	0.46	0.42	221
PRS5040-331_T	330.00		1.750	±30%	0.40	0.36	331
PRS5040-391_T	390.00		2.500	±30%	0.35	0.32	391
PRS5040-471_T	470.00		2.850	±30%	0.32	0.30	471
PRS5040-561_T	560.00		3.200	±30%	0.30	0.28	561
PRS5040-681_T	680.00		3.750	±30%	0.27	0.25	681
PRS5040-821_T	820.00		5.700	±30%	0.24	0.22	821
PRS5040-102_T	1000.00		6.500	±30%	0.21	0.19	----

Isat: 指使电感量比初始值下降约 30%的电流值, 加载电流的时间 1 秒以内。

The DC current at which the inductance drops approximate 30% from its value without current, Load current time within 1 s.

Irms: 指使电感器表面温度上升 40℃的电流值。

The DC current is inductor surface temperature to rise by 40℃.

额定工作使用电压: <22μH: DC100V; ≥22μH: DC50V

Rated working voltage: <22μH: DC100V; ≥22μH: DC50V

项目 Item	测试条件 Test condition	测试仪器 Test equipment
电感量 Ls	< 100 μ H 100kHz/500mV ≥ 100 μ H 1kHz/500mV	HP4263B\IM3532-50 or equivalent
直流电阻 RDC	直流电 direct-current	HP4263B\IRM3545 or equivalent
饱和电流 Isat	< 100 μ H 100kHz/500mV ≥ 100 μ H 1kHz/500mV	Microtest 6379 & 6220 or equivalent
温升电流 Irms	ambient temperature 20℃	Microtest 6379 & 6220 or equivalent

PRS6020 series

型号 Part NO	电感量 Ls (μ H)		直流电阻 RDC (Ω)		饱和电流 Isat (A)	温升电流 Irms (A)	印字 Marking
	Nominal value	Tol.			Max.	Max.	
PRS6020-1R0_T	1.00	N: $\pm 30\%$ M: $\pm 20\%$	0.020	$\pm 30\%$	4.15	3.50	1R0
PRS6020-1R5_T	1.50		0.022	$\pm 30\%$	4.00	3.20	1R5
PRS6020-2R2_T	2.20		0.028	$\pm 30\%$	3.75	2.75	2R2
PRS6020-3R3_T	3.30		0.035	$\pm 30\%$	3.15	2.60	3R3
PRS6020-4R7_T	4.70		0.058	$\pm 30\%$	3.00	2.00	4R7
PRS6020-6R8_T	6.80		0.079	$\pm 30\%$	2.20	1.80	6R8
PRS6020-100_T	10.00		0.105	$\pm 30\%$	1.75	1.40	100
PRS6020-150_T	15.00		0.145	$\pm 30\%$	1.20	1.20	150
PRS6020-220_T	22.00		0.204	$\pm 30\%$	1.05	1.00	220
PRS6020-330_T	33.00		0.300	$\pm 30\%$	0.95	0.84	330
PRS6020-470_T	47.00		0.430	$\pm 30\%$	0.70	0.65	470
PRS6020-680_T	68.00		0.660	$\pm 30\%$	0.62	0.60	680
PRS6020-101_T	100.00		1.200	$\pm 30\%$	0.50	0.45	101

Isat: 指使电感量比初始值下降约 30% 的电流值, 加载电流的时间 1 秒以内。

The DC current at which the inductance drops approximate 30% from its value without current, Load current time within 1 s.

Irms: 指使电感器表面温度上升 40℃ 的电流值。

The DC current is inductor surface temperature to rise by 40℃.

额定工作使用电压: < 22 μ H: DC100V; ≥ 22 μ H: DC50V

Rated working voltage: < 22 μ H: DC100V; ≥ 22 μ H: DC50V

项目 Item	测试条件 Test condition	测试仪器 Test equipment
电感量 Ls	100KHz/500mV	HP4263B\IM3532-50 or equivalent
直流电阻 RDC	直流电 direct-current	HP4263B\IRM3545 or equivalent
饱和电流 Isat	100KHz/500mV	Microtest 6379 & 6220 or equivalent
温升电流 Irms	ambient temperature 20℃	Microtest 6379 & 6220 or equivalent

PRS6028 series

型号 Part NO	电感量 Ls (μH)		直流电阻 RDC (Ω)		饱和电流 Isat (A)	温升电流 Irms (A)	印字 Marking
	Nominal value	Tol.			Max.	Max.	
PRS6028-1R0_T	1.0	N: ±30% M: ±20%	0.014	±30%	5.75	5.20	1R0
PRS6028-1R5_T	1.5		0.016	±30%	5.00	4.58	1R5
PRS6028-2R2_T	2.2		0.020	±30%	5.10	3.75	2R2
PRS6028-3R3_T	3.3		0.023	±30%	3.60	3.48	3R3
PRS6028-3R9_T	3.9		0.028	±30%	3.00	3.20	3R9
PRS6028-4R7_T	4.7		0.031	±30%	2.70	3.08	4R7
PRS6028-6R8_T	6.8		0.048	±30%	2.30	2.40	6R8
PRS6028-8R2_T	8.2		0.055	±30%	2.30	2.25	8R2
PRS6028-100_T	10		0.065	±30%	1.90	1.95	100
PRS6028-150_T	15		0.095	±30%	1.60	1.45	150
PRS6028-220_T	22		0.135	±30%	1.30	1.40	220
PRS6028-270_T	27		0.155	±30%	1.50	1.32	270
PRS6028-330_T	33		0.220	±30%	1.10	1.22	330
PRS6028-390_T	39		0.225	±30%	1.25	1.10	390
PRS6028-470_T	47		0.300	±30%	0.95	1.06	470
PRS6028-680_T	68		0.420	±30%	0.76	0.86	680
PRS6028-820_T	82		0.520	±30%	0.64	0.70	820
PRS6028-101_T	100		0.570	±30%	0.62	0.70	101
PRS6028-151_T	150		0.760	±30%	0.50	0.50	151
PRS6028-221_T	220		1.200	±30%	0.38	0.38	221
PRS6028-331_T	330		1.800	±30%	0.32	0.32	331
PRS6028-471_T	470		2.300	±30%	0.28	0.28	471

Isat: 指使电感量比初始值下降约 30% 的电流值, 加载电流的时间 1 秒以内。

The DC current at which the inductance drops approximate 30% from its value without current, Load current time within 1 s.

Irms: 指使电感器表面温度上升 40℃ 的电流值。

The DC current is inductor surface temperature to rise by 40℃.

额定工作使用电压: <22μH: DC100V; ≥22μH: DC50V

Rated working voltage: <22μH: DC100V; ≥22μH: DC50V

项目 Item	测试条件 Test condition	测试仪器 Test equipment
电感量 Ls	100KHz/500mV	HP4263B\IM3532-50 or equivalent
直流电阻 RDC	直流电 direct-current	HP4263B\RM3545 or equivalent
饱和电流 Isat	100KHz/500mV	Microtest 6379 & 6220 or equivalent
温升电流 Irms	ambient temperature 20℃	Microtest 6379 & 6220 or equivalent

PRS6045 series

型号 Part NO	电感量 Ls (μH)		直流电阻 RDC (Ω)		饱和电流 Isat (A)	温升电流 Irms (A)	印字 Marking
	Nominal value	Tol.			Max.	Max.	
PRS6045-1R0_T	1.0	N: ±30% M: ±20%	0.014	±30%	8.50	5.14	1R0
PRS6045-1R3_T	1.3		0.016	±30%	8.00	5.05	1R3
PRS6045-1R5_T	1.5		0.016	±30%	8.35	5.05	1R5
PRS6045-1R8_T	1.8		0.018	±30%	7.00	4.95	1R8
PRS6045-2R2_T	2.2		0.021	±30%	6.00	4.60	2R2
PRS6045-3R0_T	3.0		0.024	±30%	5.00	3.80	3R0
PRS6045-3R3_T	3.3		0.024	±30%	5.00	3.70	3R3
PRS6045-3R9_T	3.9		0.028	±30%	4.50	3.50	3R9
PRS6045-4R7_T	4.7		0.031	±30%	4.00	3.30	4R7
PRS6045-5R6_T	5.6		0.035	±30%	3.80	3.15	5R6
PRS6045-6R3_T	6.3		0.035	±30%	3.80	3.15	6R3
PRS6045-6R8_T	6.8		0.038	±30%	3.80	3.00	6R8
PRS6045-8R2_T	8.2		0.043	±30%	3.50	2.70	8R2
PRS6045-100_T	10		0.047	±30%	3.20	2.45	100
PRS6045-120_T	12		0.058	±30%	2.80	2.20	120
PRS6045-150_T	15		0.077	±30%	2.50	2.05	150
PRS6045-220_T	22		0.115	±30%	2.05	1.80	220
PRS6045-330_T	33		0.145	±30%	1.65	1.45	330
PRS6045-390_T	39		0.210	±30%	1.50	1.25	390
PRS6045-470_T	47		0.220	±30%	1.40	1.20	470
PRS6045-560_T	56		0.260	±30%	1.30	1.10	560
PRS6045-680_T	68		0.330	±30%	1.20	1.00	680
PRS6045-820_T	82		0.450	±30%	1.05	0.90	820
PRS6045-101_T	100		0.500	±30%	0.95	0.80	101
PRS6045-121_T	120		0.466	±30%	0.88	0.79	121
PRS6045-151_T	150		0.800	±30%	0.80	0.70	151
PRS6045-181_T	180		0.950	±30%	0.75	0.65	181
PRS6045-221_T	220		1.200	±30%	0.70	0.59	221
PRS6045-331_T	330		1.700	±30%	0.57	0.57	331
PRS6045-471_T	470		1.800	±30%	0.50	0.42	471
PRS6045-681_T	680		3.550	±30%	0.42	0.33	681
PRS6045-102_T	1000		4.500	±30%	0.30	0.20	102

Isat: 指使电感量比初始值下降约 30% 的电流值, 加载电流的时间 1 秒以内。

The DC current at which the inductance drops approximate 30% from its value without current, Load current time within 1 s.

Irms: 指使电感器表面温度上升 40℃ 的电流值。

The DC current is inductor surface temperature to rise by 40℃.

额定工作使用电压: <22μH: DC100V; ≥22μH: DC50V

Rated working voltage: <22μH: DC100V; ≥22μH: DC50V

项目 Item	测试条件 Test condition	测试仪器 Test equipment
电感量 Ls	100KHz/500mV	HP4263B\IM3532-50 or equivalent
直流电阻 RDC	直流电 direct-current	HP4263B\RM3545 or equivalent
饱和电流 Isat	100KHz/500mV	Microtest 6379 & 6220 or equivalent
温升电流 I _{rms}	ambient temperature 20℃	Microtest 6379 & 6220 or equivalent

PRS8040 series

型号 Part NO	电感量 Ls (μH)		直流电阻 RDC (Ω)		饱和电流 Isat (A)	温升电流 Irms (A)	印字 Marking
	Nominal value	Tol.			Max.	Max.	
PRS8040-R90_T	0.9	±30%	0.006	±30%	11.00	7.80	R90
PRS8040-1R0_T	1.0	N: ±30% M: ±20%	0.006	±30%	11.00	7.80	1R0
PRS8040-1R4_T	1.4		0.010	±30%	9.00	7.00	1R4
PRS8040-1R5_T	1.5		0.010	±30%	8.15	5.65	1R5
PRS8040-2R0_T	2.0		0.009	±30%	7.40	6.30	2R0
PRS8040-2R2_T	2.2		0.009	±30%	7.40	6.30	2R2
PRS8040-2R8_T	2.8		0.014	±30%	5.80	5.10	2R8
PRS8040-3R3_T	3.3		0.015	±30%	5.30	4.90	3R3
PRS8040-3R6_T	3.6		0.015	±30%	5.30	4.90	3R6
PRS8040-3R8_T	3.8		0.015	±30%	5.30	4.90	3R8
PRS8040-4R7_T	4.7		0.018	±30%	4.70	4.10	4R7
PRS8040-5R6_T	5.6		0.021	±30%	6.00	3.85	5R6
PRS8040-6R8_T	6.8		0.025	±30%	4.00	3.70	6R8
PRS8040-8R2_T	8.2		0.028	±30%	4.20	3.45	8R2
PRS8040-100_T	10		0.034	±30%	3.40	3.10	100
PRS8040-120_T	12		0.041	±30%	3.50	2.80	120
PRS8040-150_T	15		0.050	±30%	2.70	2.40	150
PRS8040-180_T	18		0.066	±30%	2.70	2.30	180
PRS8040-220_T	22		0.066	±30%	2.20	2.20	220
PRS8040-270_T	27		0.083	±30%	2.00	2.00	270
PRS8040-330_T	33		0.100	±30%	1.90	1.70	330
PRS8040-390_T	39		0.120	±30%	1.70	1.60	390
PRS8040-470_T	47		0.150	±30%	1.50	1.40	470
PRS8040-560_T	56		0.180	±30%	1.55	1.45	560
PRS8040-680_T	68		0.230	±30%	1.20	1.10	680
PRS8040-750_T	75		0.211	±30%	1.35	1.20	750
PRS8040-800_T	80		0.230	±30%	1.30	1.15	800
PRS8040-820_T	82		0.225	±30%	1.30	1.20	820
PRS8040-101_T	100		0.290	±30%	1.00	1.00	101
PRS8040-121_T	120		0.334	±30%	1.05	0.95	121
PRS8040-151_T	150		0.480	±30%	0.95	0.85	151
PRS8040-221_T	220		0.660	±30%	0.85	0.80	221
PRS8040-331_T	330		1.020	±30%	0.68	0.64	331
PRS8040-471_T	470		1.500	±30%	0.60	0.60	471
PRS8040-681_T	680		2.040	±30%	0.50	0.45	681
PRS8040-102_T	1000		2.800	±30%	0.40	0.35	102
PRS8040-152_T	1500		4.300	±30%	0.32	0.26	152

Isat: 指使电感量比初始值下降约 30% 的电流值, 加载电流的时间 1 秒以内。

The DC current at which the inductance drops approximate 30% from its value without current, Load current time within 1 s.

Irms: 指使电感器表面温度上升 40℃ 的电流值。

The DC current is inductor surface temperature to rise by 40℃.

额定工作使用电压: <22μH: DC100V; ≥22μH: DC50V

Rated working voltage: <22μH: DC100V; ≥22μH: DC50V

项目 Item	测试条件 Test condition	测试仪器 Test equipment
电感量 Ls	100KHz/500mV	HP4263B\IM3532-50 or equivalent
直流电阻 RDC	直流电 direct-current	HP4263B\RM3545 or equivalent
饱和电流 Isat	100KHz/500mV	Microtest 6379 & 6220 or equivalent
温升电流 Irms	ambient temperature 20℃	Microtest 6379 & 6220 or equivalent

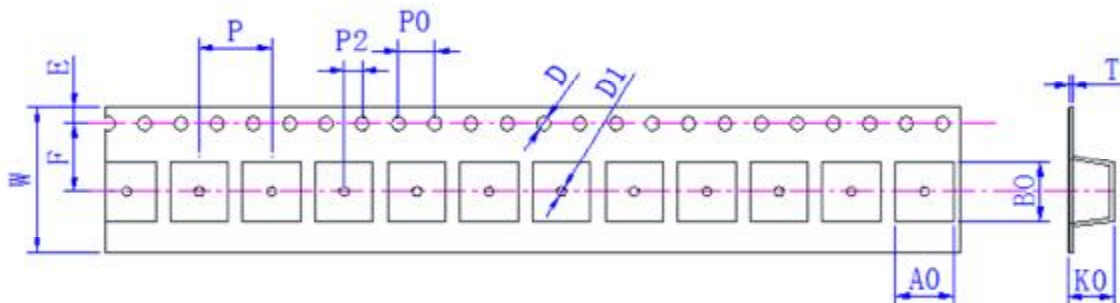
◆可靠性测试方法
Reliability Test Method

序号 No.	项目 Items	要求 Requirements	试验方法及备注 Test Methods and Remarks
1	绝缘电阻 Insulation Resistance	$\geq 100M\Omega$	在电感器线圈和磁芯之间施加 100 V 直流电压保持 60s。 100 V DC between inductor coil and core for 60 seconds.
2	可焊性 Solderability	电极面 95%以上覆盖新的焊料。 95% or more of electrode area shall be coated by new solder.	在 $245^{\circ}\text{C} \pm 3^{\circ}\text{C}$ 熔 融 的 焊 锡 (96.5Sn/3.0Ag/0.5Cu) 中浸 $3 \pm 0.3 \text{ s}$ 。 Dip pads in flux and dip in solder pot (96.5Sn/3.0Ag/0.5Cu) at $245^{\circ}\text{C} \pm 3^{\circ}\text{C}$ for (3 ± 0.3) seconds.
3	耐焊接热 Resistance to Soldering Heat	外观无可见机械损伤; 电感量变化率: $\pm 10\%$ 以内。 No visible mechanical damage. Inductance change: Within $\pm 10\%$	在 $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$ 熔 融 的 焊 锡 (96.5Sn/3.0Ag/0.5Cu) 中浸 $10 \pm 1 \text{ s}$ 。 Dip pads in flux and dip in solder pot (96.5Sn/3.0Ag/0.5Cu) at $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for (10 ± 1) seconds.
4	端子强度 Adhesion of terminal electrode	元件的端子与本体结合无松动、 无脱落。 Strong bond between the pad and the core, without come off PC board.	将电感器用 $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$, $20 \pm 5 \text{ s}$ 焊在带有 0.3 mm 厚锡膏的基板上, 然后用治具垂直电极 面方向加压 10 N, $10 \pm 1 \text{ s}$ 。 Inductors shall be subjected to $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$ for $20 \pm 5 \text{ s}$ Soldering in the base with 0.3mm solder. And then apply electrode way plus tax 10 N for $10 \pm 1 \text{ s}$ seconds.
5	耐高温 High temperature	外观无可见机械损伤; 电感量变化率: $\pm 10\%$ 以内。 No visible mechanical damage. Inductance change: Within $\pm 10\%$	温度 $+125^{\circ}\text{C} \pm 2^{\circ}\text{C}$, 时间 1000+24 0h, 在室 温下放置 2 小时后, 48 小时内测试。Temperature $125^{\circ}\text{C} \pm 2^{\circ}\text{C}$, time 1000+24 0h, Test within 48 hours after 2 hours of placement at room temperature
6	耐低温 Low temperature	外观无可见机械损伤; 电感量变化率: $\pm 10\%$ 以内。 No visible mechanical damage. Inductance change: Within $\pm 10\%$	温度 $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$, 时间 1000+24 0h; 在室 温下放置 2 小时后, 48 小时内测试。 Temperature $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$, time 1000+24 0h; Test within 48 hours after 2 hours of placement at room temperature

序号 No.	项目 Items	要求 Requirements	试验方法及备注 Test Methods and Remarks
7	温度循环 Temperature Cycling	外观无可见机械损伤； 电感量变化率：±10%以内。 No visible mechanical damage. Inductance change: Within ±10%	(-40±3) °C, 时间(30±3) min (125°C±2) °C/(30±3) min, 转换时间(2~3) min, 循环 32 次；在室温下放置 2 小时后、48 小 时内测试。 The test sample shall be placed at (-40±3)°C and (125±2)°C for (30±3) min, different temperature conversion time is 2~3 minutes. The temperature cycle shall be repeated 32 cycles. Test within 48 hours after 2 hours of placement at room temperature.
8	温度特性 Temperature characteristic	电感量变化率 Pc-b, Pc-d 不超过 ±20%。 Inductance change Pc-b, Pc-d: Within ±20%	a: +20 °C (30~45) min → b: -40 °C (30~45) min → c: +20 °C (30~45) min → d: +125 °C (30~45) min → e: +20 °C (30~45) min $P_{c-b} = \frac{L_b - L_c}{L_c} \times 100\%$; $P_{c-d} = \frac{L_d - L_c}{L_c} \times 100\%$
9	恒定湿热 Constant damp heat	外观无可见机械损伤； 电感量变化率：±10%以内。 No visible mechanical damage. Inductance change: Within ±10%	将电感器放置在于湿度(90~95)%RH, 温度 60 °C±2 °C 的环境中存放 1000+24 0h, 在室 温下放置 2 小时后、48 小时内测试。 Place inductors in humidity (90~95)%RH, 60 °C ± 2 °C temperature 1000+24 0h, Test within 48 hours after 2 hours of placement at room temperature.
10	高温负载 (寿命) High-temperature load (Life-span)	外观无可见机械损伤； 电感量变化率：±10%以内。 No visible mechanical damage. Inductance change: Within ±10%	温度 85 °C±2°C, 时间 1000+24 0h, 施加额定 电流, 在室温下放置 2 小时后、48 小时内测试。 Temperature 85 °C ± 2 °C, Time 1000+24 0h, Apply a rated current, Test within 48 hours after 2 hours of placement at room temperature. 注：加载电流时零件表面温度超过 125°C 的, 需 要对电流降额到零件表面温度不超过 125°C。 Note: If the surface temperature of the part over 125 °C when the current is loaded, the current need to reduce until the surface temperature of the part less than 125 °C.

◆包装
Packaging
● 载带尺寸 (单位: mm)

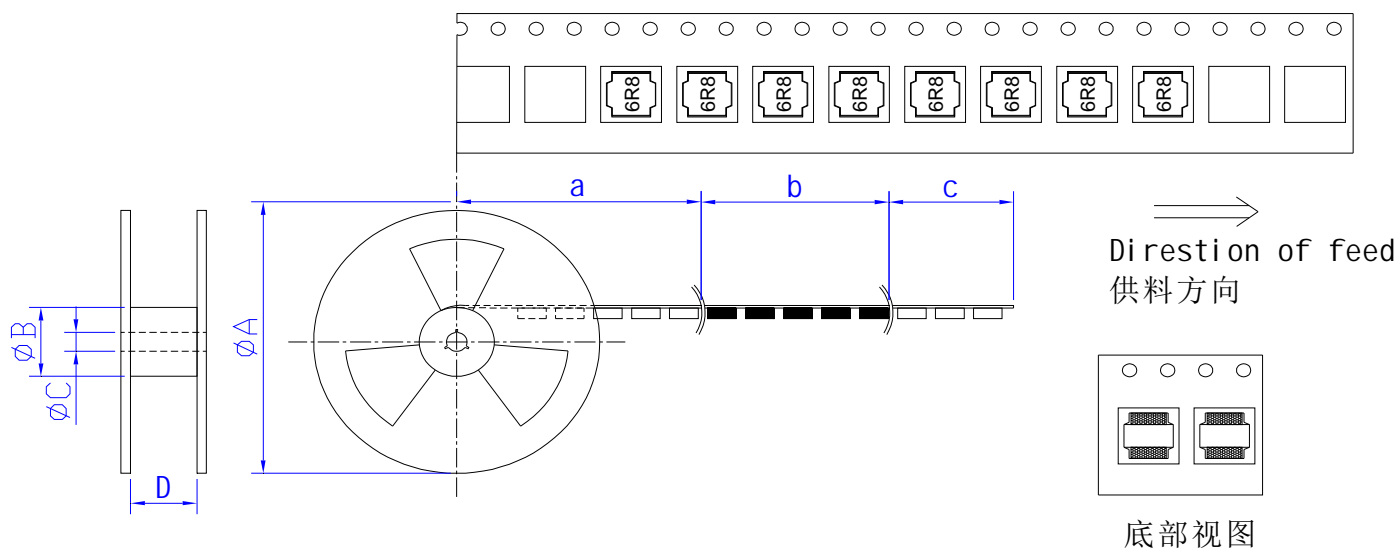
Taping Dimension(Unit: mm)



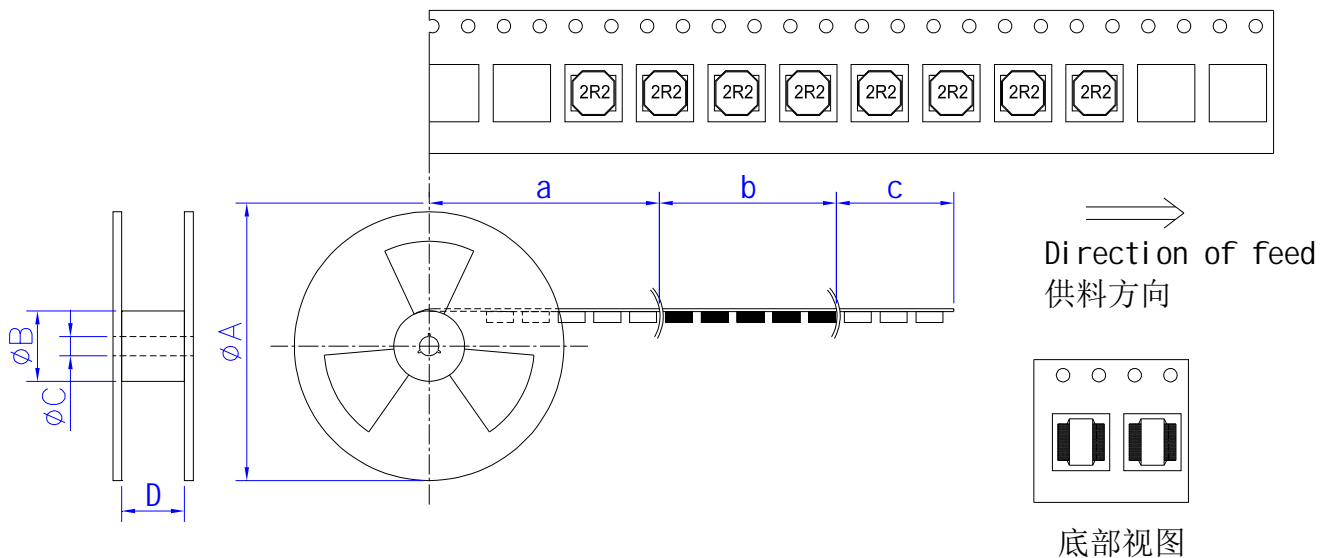
系列 Series	W	A0	B0	D	D1	E	F	K0	P0	P2	P	T
2512	8.0±0.3	2.4±0.2	2.65±0.2	1.5±0.2	----	1.75±0.2	3.5±0.2	1.4±0.2	4.0±0.2	2.0±0.2	4.0±0.3	0.25±0.05
3015	8.0±0.3	3.3±0.1	3.3±0.1	1.5±0.1	----	1.75±0.1	3.5±0.1	1.9±0.1	4.0±0.1	2.0±0.1	4.0±0.1	0.25±0.10
4018	12.0±0.5	4.3±0.3	4.3±0.3	1.5±0.3	----	1.75±0.3	5.5±0.3	2.1±0.3	4.0±0.3	2.0±0.3	8.0±0.3	0.30±0.10
4020	12.0±0.5	4.3±0.3	4.3±0.3	1.5±0.3	----	1.75±0.3	5.5±0.3	2.1±0.3	4.0±0.3	2.0±0.3	8.0±0.3	0.30±0.10
4026	12.0±0.5	4.3±0.3	4.3±0.3	1.5±0.3	----	1.75±0.3	5.5±0.3	2.8±0.3	4.0±0.3	2.0±0.3	8.0±0.3	0.30±0.10
4030	12.0±0.5	4.3±0.3	4.3±0.3	1.5±0.3	----	1.75±0.3	5.5±0.3	3.1±0.1	4.0±0.3	2.0±0.3	8.0±0.3	0.30±0.10
5020	12.0±0.5	5.3±0.3	5.3±0.3	1.5±0.3	----	1.75±0.3	5.5±0.3	2.2±0.3	4.0±0.3	2.0±0.3	8.0±0.3	0.30±0.10
5040	12.0±0.5	5.5±0.3	5.5±0.3	1.5±0.3	----	1.75±0.3	5.5±0.3	4.4±0.3	4.0±0.3	2.0±0.3	8.0±0.3	0.40±0.10
6020	12.0±0.5	6.3±0.3	6.3±0.3	1.5±0.3	----	1.75±0.3	5.5±0.3	2.2±0.3	4.0±0.3	2.0±0.3	8.0±0.3	0.30±0.10
6028	16.0±0.5	6.4±0.3	6.4±0.3	1.5±0.3	----	1.75±0.3	7.5±0.3	3.4±0.3	4.0±0.3	2.0±0.3	8.0±0.3	0.35±0.10
6045	16.0±0.5	6.4±0.3	6.4±0.3	1.5±0.3	----	1.75±0.3	7.5±0.3	4.7±0.3	4.0±0.3	2.0±0.3	8.0±0.3	0.40±0.10
8040	16.0±0.5	8.4±0.3	8.4±0.3	1.5±0.3	----	1.75±0.3	7.5±0.3	4.7±0.3	4.0±0.3	2.0±0.3	12.0±0.3	0.40±0.10

● 卷盘尺寸及产品方向(单位: mm)

Reel dimensions and products direction (Unit: mm)



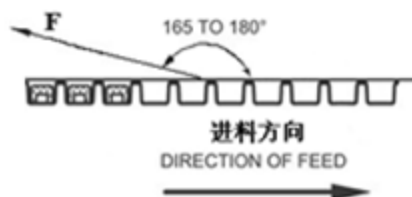
Series	A	B	C	D	a	b	c
2512	178 typ.	58 typ.	13 typ.	8.4 typ.	空带 Blank portions	装元件 Chip cavity	引带 Leader
3015	178 typ.	58 typ.	13 typ.	8.4 typ.	空带 Blank portions	装元件 Chip cavity	引带 Leader
4018	330 typ.	100 typ.	13 typ.	12.4 typ.	空带 Blank portions	装元件 Chip cavity	引带 Leader
4020	330 typ.	100 typ.	13 typ.	12.4 typ.	空带 Blank portions	装元件 Chip cavity	引带 Leader
4030	330 typ.	100 typ.	13 typ.	12.4 typ.	空带 Blank portions	装元件 Chip cavity	引带 Leader
5020	330 typ.	100 typ.	13 typ.	12.4 typ.	空带 Blank portions	装元件 Chip cavity	引带 Leader
5040	330 typ.	100 typ.	13 typ.	12.4 typ.	空带 Blank portions	装元件 Chip cavity	引带 Leader
6020	330 typ.	100 typ.	13 typ.	12.4 typ.	空带 Blank portions	装元件 Chip cavity	引带 Leader
6028	330 typ.	100 typ.	13 typ.	16.4 typ.	空带 Blank portions	装元件 Chip cavity	引带 Leader
6045	330 typ.	100 typ.	13 typ.	16.4 typ.	空带 Blank portions	装元件 Chip cavity	引带 Leader
8040	330 typ.	100 typ.	13 typ.	16.4 typ.	空带 Blank portions	装元件 Chip cavity	引带 Leader



Series	A	B	C	D	a	b	c
4026	330 typ.	100 typ.	13 typ.	12.4 typ.	空带 Blank portions	装元件 Chip cavity	引带 Leader

* 剥离力检验

Peeling off force



(1) 盖带的剥离力：沿面胶移动方向拉时要求剥离力为 0.1N~1.0N。

Peeling force should be 0.1~0.7N pulling in the direction of arrow.

(2) 剥离速度：300mm/min。

Speed of peeling off: 300mm/min.

(3) 在纸带剥落时，面胶不能有破损，不能粘纸带。

The cover bond should not be damaged and bond the tape when it peeled off.

型号 Size	2512	3015	4018	4020	4026	4030	5020	5040	6020	6028	6045	8040
每卷数量 REEL	3000	2000	3000	3000	2500	2000	2500	2000	2500	2000	1500	1000
每盒数量 BOX	15000	10000	15000	15000	12500	10000	12500	10000	12500	8000	6000	4000
每箱数量 CASE	150000	100000	45000	45000	37500	30000	37500	30000	37500	24000	18000	12000

● 标签粘贴位置

Label stick station

卷盘标签 Reel label	纸盒标签 Carton label	外箱标签 Outer box label
		
		

◆ 推荐焊接条件 Recommend Soldering Conditions

● 焊接条件

Soldering Conditions

* 本产品建议使用回流焊接法。Applicable soldering process to the products is reflow soldering.

* 焊接材料

Soldering Materials

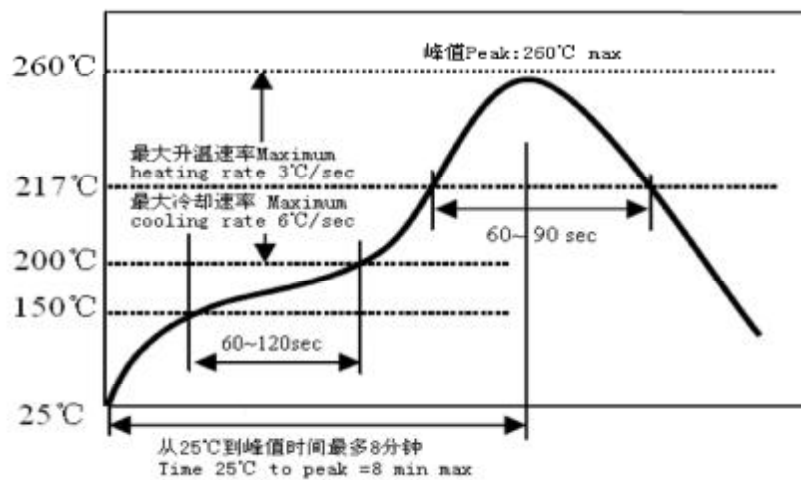
焊料: Sn-3.0Ag-0.5Cu

Solder: Sn-3.0Ag-0.5Cu

助焊剂: 使用松香基助焊剂, 禁止使用卤化物含量超过 0.2wt% 的强酸性助焊剂和水溶性助焊剂。

Flux: Use rosin-based flux, but not strongly acidic flux with chlorine exceeding 0.2 wt%. Do not use water-soluble flux.

● 回流焊曲线 Reflow soldering profile



- (1) 预热条件: 150 ~ 200°C / 60 ~ 120 秒;
Preheat condition: 150 ~ 200°C / 60~120sec
- (2) 允许大于 217°C 时间: 60—90 秒;
Allowed time above 217°C: 60~90sec
- (3) 最大温度: 260 °C;
Max temp: 260 °C
- (4) 最高温的最大时间: 10 秒;
Max time at max temp: 10 sec
- (5) 焊膏: Sn/3.0Ag/0.5Cu;
Solder paste: Sn/3.0Ag/0.5Cu

● 手工焊接

Iron soldering

烙铁温度: 350°C

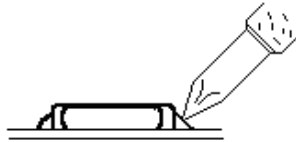
Perform soldering at 350°C.

功率: 最大为 30W

Soldering iron power output: ≤ 30W.

烙铁停留时间: < 3S (注意不能直接用焊头接触磁体)

Time: < 3S, do not directly touch the core with the tip of the soldering iron.



◆清洗

Cleaning

避免用超声波清洗，如果被超声波清洗，产品可能会被破坏。

Washing by supersonic shall be avoided. If washed by supersonic waves, the products might be broken.

◆存储要求

Storage Requirements

● 存储期限

Storage period

距电感公司出厂检验时间 1 年内，产品可以使用检验时间可以通过包装外侧标签确认。若时间超过 1 年，应检查焊接性能后方可使用。

Products which inspected inductor company over 1 year ago should be examined and used, which can be Confirmed with label on the container. Solder ability should be checked if this period is exceeded.

● 存储条件

Storage conditions

- (1) 存放货物的仓库应满足以下条件：

Store products in a warehouse in compliance with the following condition:

温度：产品（产品在封带中） -10 to +40°C;

产品本体 -40 to +85°C.

Temperature: Inductors (product with taping) -10 to +40°C;

Inductors body -40 to +85°C.

相对湿度: 30~70%RH.

Humidity: 30~70%RH.

- (2) 不要使产品遭受温度和湿度的快速变化。

Do not subject products to rapid changes in temperature and humidity.

- (3) 不要将产品存放在化学环境中，如硫酸气体或碱性气体中，否则会降低电极端子的焊接特性和使电感器腐蚀。

Do not store the products in chemical atmosphere such as one containing sulfurous acid gas or alkaline gas, that will causes poor solderability and corrosion of inductors.

- (4) 不要以散包装的形式存放产品以防止电感器间的相互碰撞造成磁芯破裂或断线。

Do not store products in bulk packaging to prevent collision among inductors which causes core chipping and wire breakage.

- (5) 为了避免受潮气、灰尘等物质的影响，产品应保管于货架上。

Store products on pallets to protect from humidity, dust, etc.

◆注意事项

Notes

- (1) 本公司产品适用于 AV 设备、OA 设备、家电、信息服务等一般电子设备中。

Our products are designed and promoted for use in general electronic devices such as audio-equipment, office automation equipment, household appliance and information service.

- (2) 当本公司的产品使用在一般电子设备以外的领域时，对于此所引发的设备失效我司将不承担任何法律责任。

In case of using the product for the purpose other than general electronics devices, we shall not be held liable for any dysfunctions in or damage to the equipment with which the product is used.

- (3) 本承认书只保证我司产品作为一个单体时的质量情况，当我司产品被安装到贵司产品上时，请贵司对使

用在贵司电路上的产品情况进行了有效评价和确认。

Our specification limits the quality of the component as a single unit. Please ensure the component is thoroughly evaluated in your application circuit.

- (4) 不要对产品施加过大的振动或机械冲击。

Do not apply excessive vibration or mechanical shock to products.

- (5) 为防止断线，请不要使用锋利的物体接触线圈，如镊子。

Do not touch wire with sharp objects such as tweezers to prevent wire breakage.

- (6) 在产品贴装时不要使用过大的压力，避免磁芯断裂。

Do not apply excessive stress to products mounted on boards to prevent core breakage.

■ 修订履历

版本	日期	修订内容	修订人
24.01	2023-12-13	首次发行 Initial issue	王志聪
A0	2025-5-6	更新模版格式 Update the template format.	王志聪
A1	2025-9-25	PRS8040 E 尺寸规格勘误 Correct the E dimension of PRS8040.	王志聪

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