



产品编码 P/N	PSTMAA1608~4030 Series	测试设备 TEST INSTRUMENT	Chroma 3302 16502
产品系列 Series	扁平线一体成型电感	测试频率 TEST FREQUENCY	1MHZ / 1V

客户名称
Customer

客户编码
Customer P/N

产品系列
Series : 扁平线一体成型电感
SMD T-CORE Molding power Inductor

产品编码
Supply P/N : PSTMAA1608~4030 Series

发版号
Version : A3.0

承认日期
Endorsement Date : 2026-4-1

备注
Note :

谱罗德电子科技（深圳）有限公司 PuLuoDe Electronic Technology (Shenzhen) Co. LTD	
制作 APPROVED	Ben
审查 CHECKED	Yuki
确认 PREPARED	Peter

客户承认

Customer Approval

客户签章



产品编码 P/N	PSTMAA1608~4030 Series	测试设备 TEST INSTRUMENT	Chroma 3302 16502
产品系列 Series	扁平线一体成型电感	测试频率 TEST FREQUENCY	1MHZ / 1V

产品特点

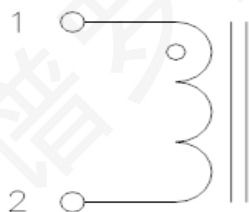
Features

- ❑ 扁线结构拥有超低的直流阻抗，更高的温升电流
Low DCR High rated current
- ❑ 一体式结构有效避免电感啸叫
No gap structure to avoid inductor noise
- ❑ 闭磁结构有效降低电磁干扰
Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (EMI)
- ❑ 超小超薄的结构减少PCB的占用面积
Takes up less PCB real estate and save more power



电路结构

Schematic



- ◎ 电感内置一组线圈
Inductor Contents one (1) Set(s) of Coil

编码解释

Code interpretation

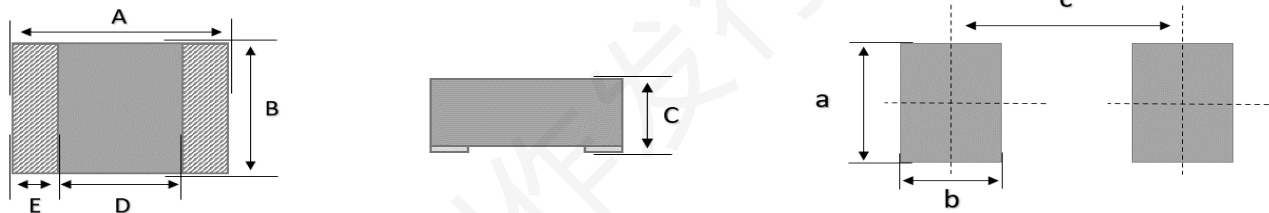
PSTMAA	252010	-	4R7	M	B
类别码	尺寸系列		系列码	公差	颜色
Category code	Dimension		Inductance	Tolerance	Color

- ◎ 规格参数基于环境温度25°C取得
All test Data is referenced to 25°C ambient
- ◎ 电感工作环境温度：-40°C ~ 125°C
Operating temperature range -40 °C to +125 °C
- ◎ 加载温升电流（Irms）会使电感温度上升大约 40°C（电感初始温度+上升温度=电感最终温度）
Typical Irms would cause an approximately ΔT of 40°C
- ◎ 加载饱和电流（ISAT）会使感量下降大约30%
Typical ISAT would cause Lo to drop approximately 30%.
- ◎ 请从温升电流（IRMS）和饱和电流（ISAT）中选取一个最小值作为额定电流
The rated current shall refer to the minimum ISAT and IRMS current
- ◎ 务必考虑最终的产品设计，元器件布局，线路板走线，以及使用环境过程中，电感最终温度不得超过125°C
The operating temperature of inductance do not exceed 125°C
- ◎ 使用电感时，请查阅第17页注意事项
The announcements is on page 18



产品编码 P/N	PSTMAA1608~4030 Series	测试设备 TEST INSTRUMENT	Chroma 3302 16502
产品系列 Series	扁平线一体成型电感	测试频率 TEST FREQUENCY	1MHZ / 1V

封装尺寸 Dimension (mm)



系列 Series	封装尺寸 Dimension					焊盘尺寸 Land Pattern		
	A	B	C	D	E	a	b	c
100506	1.0±0.15	0.5±0.15	0.60Max.	0.4 Typ	0.30±0.2	0.9	0.45	0.75
100765	1.0±0.1	0.7±0.1	0.65Max.	0.4 Typ	0.30±0.2	0.8	0.4	0.7
160865	1.6±0.2	0.8±0.2	0.65Max.	0.6 Typ	0.50±0.2	0.9	0.6	1.1
160808	1.6±0.2	0.8±0.2	0.80Max.	0.6 Typ	0.50±0.2	0.9	0.6	1.1

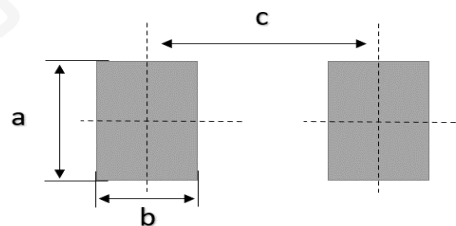
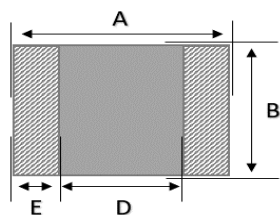
1005~1608 Series

产品编码 P/N	@ 25 °C Ambient Temperature					
	感值 Inductance	公差 Tolerance	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
			mΩ		A	A
	μH @1MHZ	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSTMAA100506-1R0MB	1.00	20%	280	320	1	1.1
PSTMAA100765-1R5MB	1.50	20%	400	500	0.6	1.1
PSTMAA100765-2R6MG	2.60	20%	750	900	0.55	1
PSTMAA160865-R10MG	0.10	20%	16.5	20	6.5	6.5
PSTMAA160865-R22MG	0.22	20%	35	43	4	5
PSTMAA160865-R47MG	0.47	20%	65	78	3	3.5
PSTMAA160865-1R0MG	1.00	20%	140	160	2.2	2.2
PSTMAA160865-2R2MB	2.20	20%	390	430	1.3	1.6
PSTMAA160808-R18MB	0.18	20%	17	21	5.8	6
PSTMAA160808-R22MB	0.22	20%	33	40	5	5.5
PSTMAA160808-R24MB	0.24	20%	20	24	5.2	5.3
PSTMAA160808-R33MB	0.33	20%	30	35	4.7	4.7
PSTMAA160808-R47MB	0.47	20%	38	45	4.2	4
PSTMAA160808-R56MB	0.56	20%	50	63	2.5	3
PSTMAA160808-R68MB	0.68	20%	110	130	2.4	3.3
PSTMAA160808-1R0MG	1.0	20%	105	115	2.3	2.3
PSTMAA160808-1R5MB	1.5	20%	240	285	1.7	2.4
PSTMAA160808-2R2MG	2.2	20%	220	260	1.8	1.5
PSTMAA160808-3R3MB	3.3	20%	500	600	1	1.4
PSTMAA160808-4R7MB	4.7	20%	580	700	1	1.2
PSTMAA160808-100MB	10.0	20%	1450	1600	0.6	0.8



产品编码 P/N	PSTMAA1608~4030 Series	测试设备 TEST INSTRUMENT	Chroma 3302 16502
产品系列 Series	扁平线一体成型电感	测试频率 TEST FREQUENCY	1MHZ / 1V

封装尺寸
Dimension (mm)



系列 Series	封装尺寸 Dimension					焊盘尺寸 Land Pattern		
	A	B	C	D	E	a	b	c
141265	1.4±0.2	1.2±0.2	0.65Max.	0.5 Typ	0.45±0.2	1.3	0.65	1.05
141208	1.4±0.2	1.2±0.2	0.80Max.	0.5 Typ	0.45±0.2	1.3	0.65	1.05
201665	2.0±0.2	1.2±0.2	0.65Max.	0.6 Typ	0.70±0.2	1.3	0.8	1.3
201208	2.0±0.2	1.2±0.2	0.80Max.	0.6 Typ	0.70±0.2	1.3	0.8	1.3

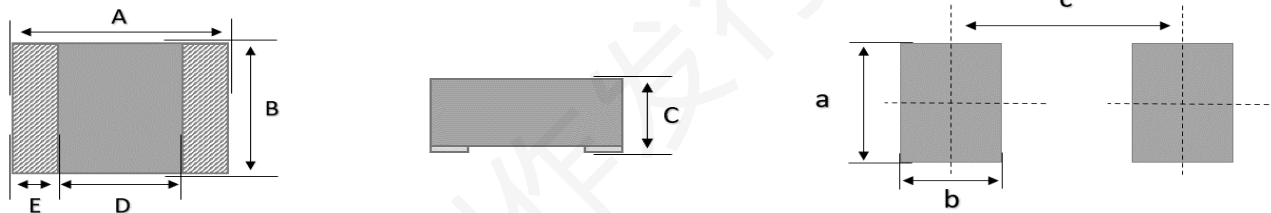
1412~201208 Series

产品编码 P/N	@ 25 °C Ambient Temperature					
	感值 Inductance	公差 Tolerance	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
			mΩ		A	A
	μH @1MHZ	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSTMAA141265-R10MB	1.00	20%	13.5	16.5	7	7
PSTMAA141265-R15MB	0.24	20%	16	19.5	6.8	6
PSTMAA141265-R24MB	0.24	20%	23	27	6.5	5.5
PSTMAA141265-R33MB	0.33	20%	26	32	4.4	4.4
PSTMAA141265-R47MG	0.47	20%	35	38	3.5	4
PSTMAA141208-R10MB	0.10	20%	11.5	14	8	8.5
PSTMAA141208-R24MB	0.24	20%	21	24	6.6	7.2
PSTMAA141208-R33MB	0.33	20%	23	28	4	5.3
PSTMAA141208-R47MB	0.47	20%	29	35	3.8	4.6
PSTMAA141208-1R0MB	1.00	20%	65	77	3	3
PSTMAA141208-2R2MB	2.20	20%	200	225	2	1.9
PSTMAA201265-R15MB	0.15	20%	12	14	6	6.5
PSTMAA201265-R24MB	0.24	20%	17	20	4.8	5.1
PSTMAA201265-R33MB	0.33	20%	30	35	4.3	4.6
PSTMAA201265-R47MB	0.47	20%	37	44	3.8	4.1
PSTMAA201265-R68MB	0.68	20%	50	60	3.3	3.5
PSTMAA201265-1R0MB	1.00	20%	78	86	2.6	2.8
PSTMAA201265-2R2MB	2.20	20%	175	200	1.8	1.9
PSTMAA201265-4R7MB	4.70	20%	470	530	1.1	1.2
PSTMAA201208-R11MB	0.11	20%	10	12	7	9.5
PSTMAA201208-R15MB	0.15	20%	11	13	6.8	7.5
PSTMAA201208-R24MB	0.24	20%	16	18	7	7.2
PSTMAA201208-R33MB	0.33	20%	20	24	5.8	6
PSTMAA201208-R47MB	0.47	20%	24	28	4.7	5.2
PSTMAA201208-R68MB	0.68	20%	50	60	3.7	4.2
PSTMAA201208-1R0MB	1.0	20%	48	55	3.2	3.2
PSTMAA201208-1R5MB	1.5	20%	118	135	2.2	3
PSTMAA201208-2R2MB	2.2	20%	130	156	1.8	2.2
PSTMAA201208-3R3MB	3.3	20%	253	300	1.8	1.9
PSTMAA201208-4R7MB	4.7	20%	285	325	1.7	1.6
PSTMAA201208-6R8MB	6.8	20%	460	530	1.1	1.3
PSTMAA201208-100MB	10.0	20%	700	800	0.8	0.9



产品编码 P/N	PSTMAA1608~4030 Series	测试设备 TEST INSTRUMENT	Chroma 3302 16502
产品系列 Series	扁平线一体成型电感	测试频率 TEST FREQUENCY	1MHZ / 1V

封装尺寸 Dimension (mm)



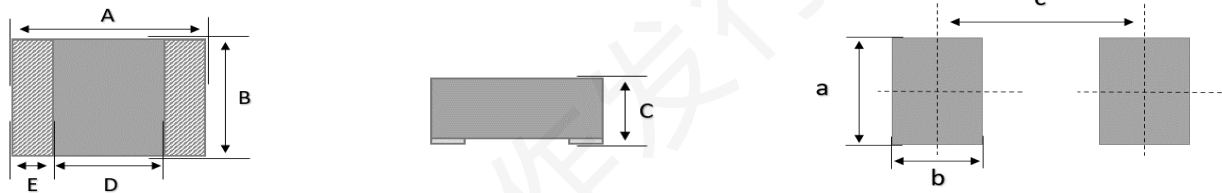
系列 Series	封装尺寸 Dimension					焊盘尺寸 Land Pattern		
	A	B	C	D	E	a	b	c
201210	2.0±0.2	1.2±0.2	1.0Max.	0.6 Typ	0.70±0.2	1.3	0.8	1.3
201212	2.0±0.2	1.2±0.2	1.2Max.	0.6 Typ	0.70±0.2	1.3	0.8	1.3
201665	2.0±0.2	1.6±0.2	0.65Max.	0.6 Typ	0.70±0.2	1.7	0.8	1.3

201210~201665 Series

产品编码 P/N	@ 25 °C Ambient Temperature					
	感值	公差	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
	Inductance	Tolerance	mΩ		A	A
	μH @1MHZ	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSTMAA201210-R10MB	0.1	20%	8	13	9	8.5
PSTMAA201210-R11MB	0.1	20%	7	8.5	10	14
PSTMAA201210-R22MB	0.2	20%	16	22	7	7.3
PSTMAA201210-R24MG	0.24	20%	11.5	14	9	7.3
PSTMAA201210-R33MG	0.33	20%	14	16	7.5	6.7
PSTMAA201210-R47MB	0.47	20%	18	20	7	6
PSTMAA201210-R56MB	0.56	20%	26	31	5.3	5.2
PSTMAA201210-R68MB	0.68	20%	37	43	4.5	5
PSTMAA201210-1R0MB	1.0	20%	50	55	4	4
PSTMAA201210-1R5MB	1.5	20%	76	85	3.1	3.2
PSTMAA201210-2R2MB	2.2	20%	135	150	2	2.7
PSTMAA201210-3R3MB	3.3	20%	210	260	1.8	2.2
PSTMAA201210-4R7MB	4.7	20%	275	300	1.6	1.8
PSTMAA201210-6R8MB	6.8	20%	440	520	1.5	1.4
PSTMAA201210-100MB	10	20%	600	660	1.1	1.2
PSTMAA201212-R11MB	0.11	20%	5	5.8	12	12
PSTMAA201212-R24MB	0.24	20%	13	15	7.7	9
PSTMAA201212-R33MB	0.33	20%	17	20.5	6.3	6.5
PSTMAA201212-R47MB	0.47	20%	20	22	6.2	5.5
PSTMAA201212-1R0MB	1.00	20%	40	48	3.9	4
PSTMAA201212-3R3MB	3.30	20%	180	210	1.8	2
PSTMAA201665-R47MB	0.47	20%	33	40	5	4.4
PSTMAA201665-R68MB	0.68	20%	42	50	4	3.4
PSTMAA201665-1R0MB	1.00	20%	58	70	3.5	3
PSTMAA201665-2R2MB	2.20	20%	145	170	2.8	2.2

产品编码 P/N	PSTMAA1608~4030 Series	测试设备 TEST INSTRUMENT	Chroma 3302 16502
产品系列 Series	扁平线一体成型电感	测试频率 TEST FREQUENCY	1MHZ / 1V

封装尺寸
Dimension (mm)



系列 Series	封装尺寸 Dimension					焊盘尺寸 Land Pattern		
	A	B	C	D	E	a	b	c
201608	2.0±0.2	1.6±0.2	0.80Max.	0.6 Typ	0.70±0.2	1.7	0.8	1.3
201610	2.0±0.2	1.6±0.2	1.0Max.	0.6 Typ	0.70±0.2	1.7	0.8	1.3

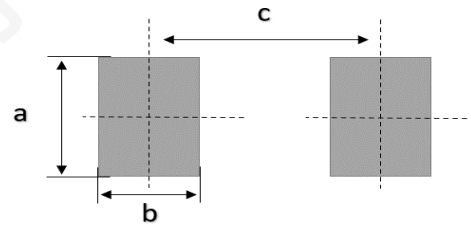
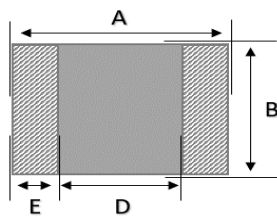
201608~201610 Series

产品编码 P/N	@ 25 °C Ambient Temperature					
	感值	公差	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
	Inductance	Tolerance	mΩ		A	A
	μH @1MHZ	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSTMAA201608-R22MB	0.22	20%	14	19	6.6	6.1
PSTMAA201608-R24MB	0.24	20%	14	20	6.5	6
PSTMAA201608-R33MB	0.33	20%	18	24	5.5	5.8
PSTMAA201608-R47MB	0.47	20%	24	27	5.5	5.5
PSTMAA201608-R68MB	0.68	20%	39	44	3.8	4.6
PSTMAA201608-1R0MG	1.00	20%	45	52	3.6	3.8
PSTMAA201608-1R5MB	1.50	20%	73	85	3.1	3
PSTMAA201608-2R2MB	2.20	20%	123	140	2.2	2.5
PSTMAA201608-3R3MB	3.30	20%	200	220	1.8	2.1
PSTMAA201608-4R7MB	4.70	20%	260	290	1.6	1.7
PSTMAA201608-6R8MB	6.80	20%	360	405	1.4	1.4
PSTMAA201608-100MB	10.00	20%	690	800	1	1
PSTMAA201610-R10MB	0.10	20%	7	12	8.5	9
PSTMAA201610-R11MB	0.11	20%	7.5	13	8	8.9
PSTMAA201610-R15MB	0.15	20%	8	14	7.6	8.7
PSTMAA201610-R22MB	0.22	20%	11	13	6.9	8.2
PSTMAA201610-R24MB	0.24	20%	7.5	9	8	7.5
PSTMAA201610-R33MB	0.33	20%	11	13	6.7	6.5
PSTMAA201610-R47MB	0.47	20%	19	23	6.5	7
PSTMAA201610-R56MB	0.56	20%	19	23	7.5	5.5
PSTMAA201610-R68MB	0.68	20%	25	32	5.5	5.7
PSTMAA201610-1R0MB	1.0	20%	31	36	4.6	4.7
PSTMAA201610-1R5MB	1.5	20%	60	70	4.0	3.3
PSTMAA201610-2R2MB	2.2	20%	72	81	3.3	3.0
PSTMAA201610-3R3MB	3.3	20%	140	170	1.7	2.3
PSTMAA201610-4R7MB	4.7	20%	190	220	1.8	2.0
PSTMAA201610-6R8MB	6.8	20%	320	350	1.7	1.7
PSTMAA201610-100MB	10	20%	483	580	1.0	1.4
PSTMAA201610-150MB	15	20%	800	960	0.9	1.1
PSTMAA201610-220MB	22	20%	1200	1400	0.6	0.8



产品编码 P/N	PSTMAA1608~4030 Series	测试设备 TEST INSTRUMENT	Chroma 3302 16502
产品系列 Series	扁平线一体成型电感	测试频率 TEST FREQUENCY	1MHZ / 1V

封装尺寸 Dimension (mm)



系列	封装尺寸 Dimension					焊盘尺寸 Land Pattern		
Series	A	B	C	D	E	a	b	c
201612	2.0±0.2	1.6±0.2	1.2Max.	0.6 Typ	0.70±0.2	1.7	0.8	1.3
252008	2.5±0.2	2.0±0.2	0.80Max.	0.8 Typ	0.85±0.2	2.1	0.95	1.65
252010	2.5±0.2	2.0±0.2	1.0Max.	0.8 Typ	0.85±0.2	2.1	0.95	1.65

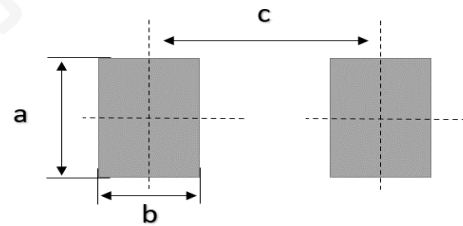
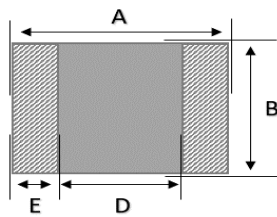
201612~25201010 Series

产品编码 P/N	@ 25 °C Ambient Temperature					
	感值	公差	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
	Inductance	Tolerance	mΩ		A	A
	μH @1MHZ	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSTMAA201612-R10MB	0.1	20%	4	6	12	13
PSTMAA201612-R11MB	0.11	20%	4.8	5.6	15.5	12.5
PSTMAA201612-R15MB	0.15	20%	7.5	10	10	12
PSTMAA201612-R24MB	0.24	20%	10	12.5	11	10.5
PSTMAA201612-R33MB	0.33	20%	10	15	7.7	7.8
PSTMAA201612-R47MB	0.47	20%	13	17	6.7	6.7
PSTMAA201612-R68MB	0.68	20%	19	23	6	6
PSTMAA201612-1R0MB	1.0	20%	30	36	5	5
PSTMAA201612-1R5MB	1.5	20%	40	50	4	4
PSTMAA201612-2R2MB	2.2	20%	77	90	3.3	3.1
PSTMAA201612-3R3MB	3.3	20%	115	130	2.6	2.7
PSTMAA201612-6R8MB	6.8	20%	255	300	1.8	1.9
PSTMAA252008-R47MB	0.47	20%	22	27	6.5	6.0
PSTMAA252008-R68MB	0.68	20%	27	32	4.9	5.0
PSTMAA252008-1R0MB	1.0	20%	34	40	4.3	4.5
PSTMAA252008-1R5MB	1.5	20%	64	75	3.4	3.5
PSTMAA252008-2R2MB	2.2	20%	69	77	3.0	3.0
PSTMAA252008-3R3MB	3.3	20%	150	180	2.5	2.5
PSTMAA252008-4R7MB	4.7	20%	180	215	2.0	1.9
PSTMAA252008-100MB	10	20%	490	540	1.4	1.3
PSTMAA252010-R10MB	0.1	20%	6.5	8.5	12	13.5
PSTMAA252010-R15MB	0.15	20%	7	9	9.5	10.5
PSTMAA252010-R22MB	0.22	20%	12	17	6.8	8.6
PSTMAA252010-R24MB	0.24	20%	8.5	10	8.5	9.0
PSTMAA252010-R33MB	0.33	20%	13	19	6.5	7.6
PSTMAA252010-R47MB	0.47	20%	13	15	6.5	6.6
PSTMAA252010-R68MB	0.68	20%	23	27	5.6	5.9
PSTMAA252010-R82MB	0.82	20%	25	29	4.5	5.3
PSTMAA252010-1R0MB	1	20%	25	28	7.5	5.0
PSTMAA252010-1R5MB	1.5	20%	45	55	3.4	4.3
PSTMAA252010-1R8MB	1.8	20%	50	60	4.0	4.0
PSTMAA252010-2R2MB	2.2	20%	62	70	4.0	3.4
PSTMAA252010-3R3MB	3.3	20%	86	100	2.5	2.8
PSTMAA252010-4R7MB	4.7	20%	120	130	3.0	2.2
PSTMAA252010-6R8MB	6.8	20%	270	320	1.6	2.4
PSTMAA252010-100MB	10	20%	500	560	1.05	1.55
PSTMAA252010-220MG	22	20%	1100	1300	0.85	1.1



产品编码 P/N	PSTMAA1608~4030 Series	测试设备 TEST INSTRUMENT	Chroma 3302 16502
产品系列 Series	扁平线一体成型电感	测试频率 TEST FREQUENCY	1MHZ / 1V

封装尺寸
Dimension (mm)



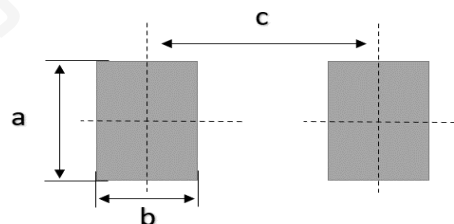
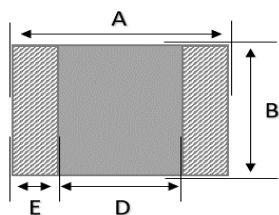
系列 Series	封装尺寸 Dimension					焊盘尺寸 Land Pattern		
	A	B	C	D	E	a	b	c
252012	2.5±0.2	2.0±0.2	1.2Max.	0.8 Typ	0.85±0.2	2.1	0.95	1.65
322510	3.2±0.2	2.5±0.2	1.0MAX	1.1 Typ	1.05±0.2	2.5	1.1	2.1

252012~322510 Series

产品编码 P/N	@ 25 °C Ambient Temperature					
	感值	公差	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
	Inductance	Tolerance	mΩ		A	A
	μH @1MHZ	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSTMAA252012-R10MB	0.1	20%	4	4.8	16	15
PSTMAA252012-R11MB	0.11	20%	4.2	5	15	14
PSTMAA252012-R15MB	0.15	20%	7	11	11.5	13
PSTMAA252012-R22MB	0.22	20%	8	10	11	12
PSTMAA252012-R24MB	0.24	20%	10	15	8	9.3
PSTMAA252012-R33MB	0.33	20%	10	12	9	9
PSTMAA252012-R47MB	0.47	20%	11	13	8	8.5
PSTMAA252012-R68MB	0.68	20%	15	18	7.5	6.7
PSTMAA252012-R82MB	0.82	20%	19	23	6.3	6.5
PSTMAA252012-1R0MB	1.0	20%	16	22	6.1	6.5
PSTMAA252012-1R2MB	1.2	20%	29	35	5.7	5.3
PSTMAA252012-1R5MB	1.5	20%	27	32	4.6	4.7
PSTMAA252012-2R2MB	2.2	20%	52	60	3.9	4.1
PSTMAA252012-3R3MB	3.3	20%	80	97	2.3	3
PSTMAA252012-4R7MB	4.7	20%	150	170	2.4	2.7
PSTMAA252012-6R8MB	6.8	20%	245	270	2.1	2.2
PSTMAA252012-100MB	10	20%	330	400	1.2	1.6
PSTMAA252012-150MB	15	20%	500	565	1.4	1.4
PSTMAA252012-220MB	22	20%	740	800	1.2	1.1
PSTMAA322510-R22MB	0.22	20%	9	11	8.5	8.5
PSTMAA322510-R33MB	0.33	20%	11	15	8.3	8.3
PSTMAA322510-R47MB	0.47	20%	17	22	6.4	8.3
PSTMAA322510-R68MB	0.68	20%	22	28	6.2	7.5
PSTMAA322510-1R0MB	1.0	20%	25	30	5.4	6
PSTMAA322510-1R5MB	1.5	20%	34	42	4	5
PSTMAA322510-2R2MB	2.2	20%	55	66	3.7	4
PSTMAA322510-3R3MB	3.3	20%	105	120	2.7	3.3
PSTMAA322510-4R7MB	4.7	20%	125	140	2.3	2.8
PSTMAA322510-6R8MB	6.8	20%	290	320	1.9	2.4
PSTMAA322510-100MB	10	20%	325	365	2.2	2.2

产品编码 P/N	PSTMAA1608~4030 Series	测试设备 TEST INSTRUMENT	Chroma 3302 16502
产品系列 Series	扁平线一体成型电感	测试频率 TEST FREQUENCY	1MHZ / 1V

封装尺寸 Dimension (mm)



系列 Series	封装尺寸 Dimension					焊盘尺寸 Land Pattern		
	A	B	C	D	E	a	b	c
322512	3.2±0.2	2.5±0.2	1.2MAX	1.1 Typ	1.05±0.2	2.5	1.1	2.1
322520	3.2±0.2	2.5±0.2	2.0MAX	1.1 Typ	1.05±0.2	2.5	1.1	2.1

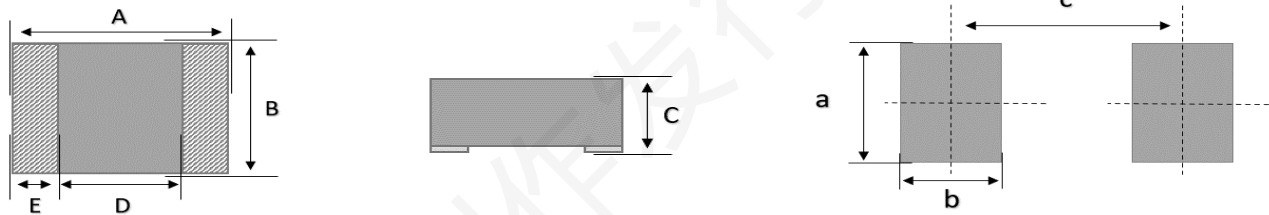
322512~322520 Series

产品编码 P/N	@ 25 °C Ambient Temperature					
	感值	公差	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
	Inductance	Tolerance	mΩ		A	A
	μH @1MHZ	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSTMAA322512-R10MB	0.1	20%	5.2	7	12	18
PSTMAA322512-R11MB	0.11	20%	4.5	6	13	17
PSTMAA322512-R22MB	0.22	20%	6.2	8	11	12
PSTMAA322512-R24MB	0.24	20%	7	12	9	11
PSTMAA322512-R33MB	0.33	20%	9	14	8.4	10
PSTMAA322512-R47MB	0.47	20%	10	11	8.5	8.5
PSTMAA322512-R56MB	0.56	20%	15	19	8	8.4
PSTMAA322512-R68MB	0.68	20%	12	15	7	8
PSTMAA322512-1R0MB	1.0	20%	18	21	6.5	7.7
PSTMAA322512-1R2MB	1.2	20%	26	32	5.7	5.9
PSTMAA322512-1R5MB	1.5	20%	37	44	4.7	5.1
PSTMAA322512-2R2MB	2.2	20%	42	50	4.2	5
PSTMAA322512-3R3MG	3.3	20%	62	67	2.9	3.7
PSTMAA322512-4R7MB	4.7	20%	105	120	2.5	3
PSTMAA322512-6R8MB	6.8	20%	177	210	2.1	2.8
PSTMAA322512-100MB	10	20%	210	230	2.2	2.3
PSTMAA322520-R27MB	0.27	20%	5.5	6.5	16	16
PSTMAA322520-R33MB	0.33	20%	7.5	9	9.5	15.5
PSTMAA322520-R47MB	0.47	20%	9	10.5	9.5	15
PSTMAA322520-R68MB	0.68	20%	12.5	14.5	9	13
PSTMAA322520-1R0MB	1.0	20%	15	17.5	8.5	10.5
PSTMAA322520-1R5MB	1.5	20%	22	25	6.5	6.8
PSTMAA322520-2R2MB	2.2	20%	36	43	5.4	6.5
PSTMAA322520-3R3MB	3.3	20%	55	60	4.5	4.5
PSTMAA322520-4R7MB	4.7	20%	81	94	3.5	4
PSTMAA322520-6R8MB	6.8	20%	101	125	2.8	3.8



产品编码 P/N	PSTMAA1608~4030 Series	测试设备 TEST INSTRUMENT	Chroma 3302 16502
产品系列 Series	扁平线一体成型电感	测试频率 TEST FREQUENCY	1MHZ / 1V

封装尺寸
Dimension (mm)



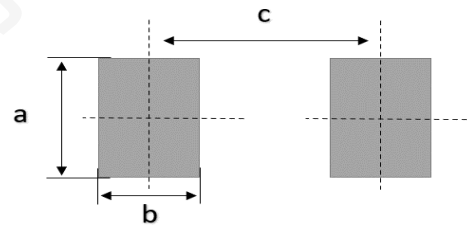
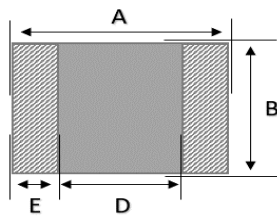
系列 Series	封装尺寸 Dimension					焊盘尺寸 Land Pattern		
	A	B	C	D	E	a	b	c
3010	3.0±0.2	3.0±0.2	1.0Max.	1.0 Typ	1.0±0.2	3.0	1.05	2.95
3012	3.0±0.2	3.0±0.2	1.2Max.	1.0 Typ	1.0±0.2	3.0	1.05	2.95
3015	3.0±0.2	3.0±0.2	1.5Max.	1.0 Typ	1.0±0.2	3.0	1.05	2.95

3010~3015 Series

产品编码 P/N	@ 25 °C Ambient Temperature					
	感值	公差	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
	Inductance	Tolerance	mΩ		A	A
	μH @1MHZ	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSTMAA3010-1R0MB	1	20%	25	30	7	6
PSTMAA3010-2R2MB	2.2	20%	55	66	5	4
PSTMAA3010-4R7MB	4.7	20%	120	140	3.2	2.7
PSTMAA3010-6R8MB	6.8	20%	225	270	2.1	1.8
PSTMAA3010-100MB	10	20%	250	275	2.2	1.8
<hr/>						
PSTMAA3012-R10MB	0.1	20%	5	6	18	20
PSTMAA3012-R47MB	0.47	20%	9	11	11	8.5
PSTMAA3012-R68MB	0.68	20%	14	16	7.5	7
PSTMAA3012-1R0MB	1	20%	23	27	5.5	6
PSTMAA3012-1R5MB	1.5	20%	29	34	6	5.5
PSTMAA3012-2R2MB	2.2	20%	38	50	4	5
PSTMAA3012-3R3MB	3.3	20%	55	70	3.5	4
PSTMAA3012-4R7MB	4.7	20%	100	120	3	3
PSTMAA3012-6R8MB	6.8	20%	160	190	2.7	2.7
PSTMAA3012-100MB	10	20%	192	220	2.3	2.3
PSTMAA3012-150MB	15	20%	345	380	1.6	1.9
<hr/>						
PSTMAA3015-R15MB	0.15	20%	5	6	12	16
PSTMAA3015-R20MB	0.2	20%	4.8	5.9	13	16
PSTMAA3015-R33MB	0.33	20%	6.5	8.5	14	12
PSTMAA3015-R47MB	0.47	20%	9	11	9	10
PSTMAA3015-1R0MB	1	20%	18	22	6	7
PSTMAA3015-1R5MB	1.5	20%	22	26	8	6
PSTMAA3015-2R2MB	2.2	20%	42	50	4.5	5
PSTMAA3015-3R3MB	3.3	20%	50	60	4	4.5
PSTMAA3015-4R7MB	4.7	20%	87	104	3.5	4
PSTMAA3015-6R8MB	6.8	20%	160	180	2.5	3.5
PSTMAA3015-100MB	10	20%	185	215	2	2.8
PSTMAA3015-150MB	15	20%	320	350	1.8	2
PSTMAA3015-220MB	22	20%	580	700	1.2	1.6

产品编码 P/N	PSTMAA1608~4030 Series	测试设备 TEST INSTRUMENT	Chroma 3302 16502
产品系列 Series	扁平线一体成型电感	测试频率 TEST FREQUENCY	1MHZ / 1V

封装尺寸 Dimension (mm)



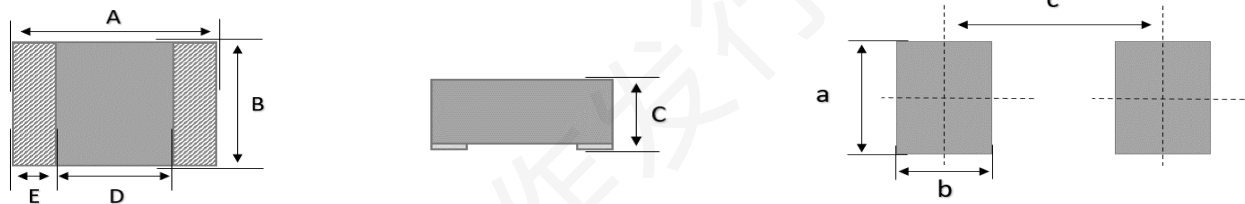
系列 Series	封装尺寸 Dimension					焊盘尺寸 Land Pattern		
	A	B	C	D	E	a	b	c
3018	3.0±0.2	3.0±0.2	1.8Max.	1.0 Typ	1.0±0.2	3.0	1.05	2.95
3020	3.0±0.2	3.0±0.2	2.0Max.	1.0 Typ	1.0±0.2	3.0	1.05	2.95
4010	4.1±0.2	4.1±0.2	1.0Max.	1.4 Typ	1.35±0.2	4.1	1.4	2.7

3018~4010 Series

产品编码 P/N	@ 25 °C Ambient Temperature					
	感值	公差	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
	Inductance	Tolerance	mΩ		A	A
	μH @1MHZ	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSTMAA3018-R22MB	0.22	20%	5.5	7	10	17
PSTMAA3018-R47MB	0.47	20%	8	10	9	12
PSTMAA3018-R68MB	0.68	20%	12	14.5	10	11
PSTMAA3018-1R0MB	1.0	20%	15	21	6.3	7.6
PSTMAA3018-1R5MB	1.5	20%	20	26	6.8	8
PSTMAA3018-4R7MB	4.7	20%	72	87	3.4	4.7
<hr/>						
PSTMAA3020-R10MB	0.1	20%	3.3	4.5	17	25
PSTMAA3020-R15MB	0.15	20%	4	5	13	18
PSTMAA3020-R22MB	0.22	20%	5	6.5	11	17.5
PSTMAA3020-R33MB	0.33	20%	7.5	9	10	17
PSTMAA3020-R36MB	0.36	20%	7.5	9	10	16.5
PSTMAA3020-R47MB	0.47	20%	8	11	9	15
PSTMAA3020-R50MB	0.5	20%	7	8.3	12.5	13.5
PSTMAA3020-R68MB	0.68	20%	13	16	8.5	13
PSTMAA3020-1R0MB	1.0	20%	14	20	6.5	8
PSTMAA3020-1R5MB	1.5	20%	19	25	6.3	7
PSTMAA3020-2R2MB	2.2	20%	37	45	4.7	6
PSTMAA3020-3R3MB	3.3	20%	52	63	4.5	5.9
PSTMAA3020-4R7MB	4.7	20%	60	73	4.2	4.8
PSTMAA3020-6R8MB	6.8	20%	107	135	3.2	4.5
PSTMAA3020-100MB	10	20%	135	160	2.5	3.8
PSTMAA3020-150MB	15	20%	235	260	1.8	2.6
<hr/>						
PSTMAA4010-1R0MB	1.0	20%	22	26	7	5.3
PSTMAA4010-100MB	10	20%	220	280	2.5	2.2

产品编码 P/N	PSTMAA1608~4030 Series	测试设备 TEST INSTRUMENT	Chroma 3302 16502
产品系列 Series	扁平线一体成型电感	测试频率 TEST FREQUENCY	1MHZ / 1V

封装尺寸 Dimension (mm)



系列 Series	封装尺寸 Dimension					焊盘尺寸 Land Pattern		
	A	B	C	D	E	a	b	c
4012	4.1±0.2	4.1±0.2	1.2Max.	1.4 Typ	1.35±0.2	4.1	1.4	2.7
4015	4.1±0.2	4.1±0.2	1.5Max.	1.4 Typ	1.35±0.2	4.1	1.4	2.7
4020	4.1±0.2	4.1±0.2	2.0Max.	1.4 Typ	1.35±0.2	4.1	1.4	2.7
4030	4.1±0.2	4.1±0.2	3.0Max.	1.4 Typ	1.35±0.2	4.1	1.4	2.7

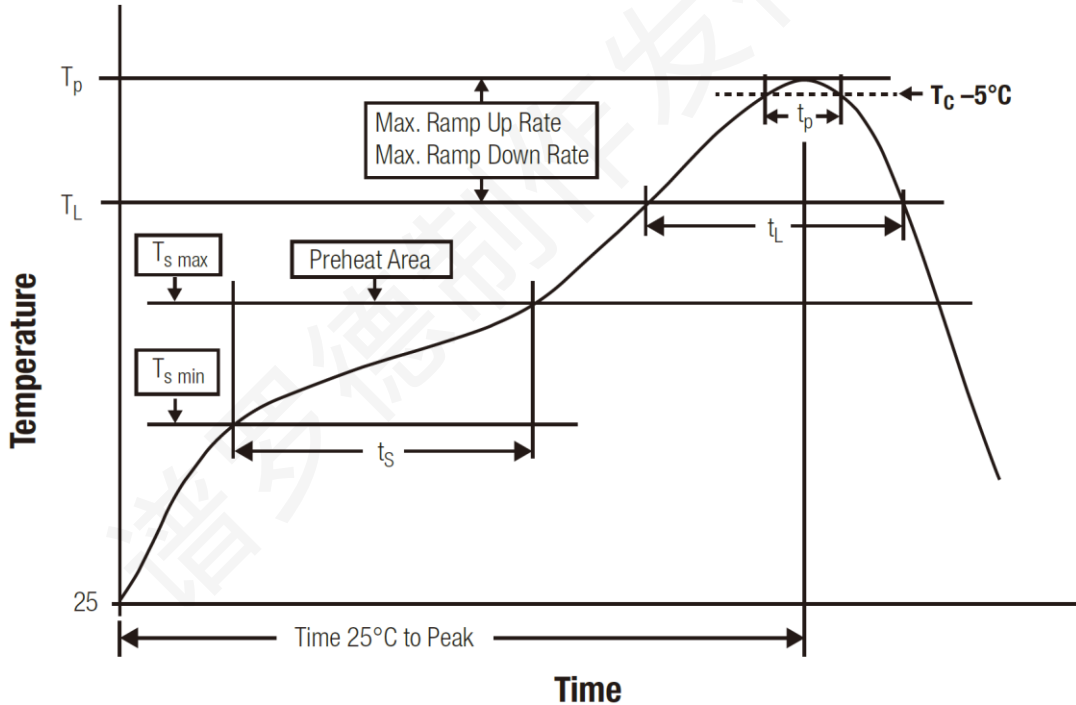
4012~4030 Series

产品编码 P/N	@ 25 °C Ambient Temperature					
	感值	公差	DCR		温升电流 (IRMS)	饱和电流 (ISAT)
	Inductance	Tolerance	mΩ		A	A
	μH @1MHZ	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSTMAA4012-R47MB	0.47	20%	11.5	14	9	12
PSTMAA4012-R68MB	0.68	20%	15	18	8.5	10
PSTMAA4012-1R0MB	1.0	20%	21	25	6.3	11
PSTMAA4012-1R5MB	1.5	20%	29	34.5	6	8
PSTMAA4012-2R2MB	2.2	20%	45	55	5	6.5
PSTMAA4012-3R3MB	3.3	20%	67	80	4.5	5.5
PSTMAA4012-4R7MB	4.7	20%	90	110	3.5	5
PSTMAA4012-5R6MB	5.6	20%	116	140	3	4.5
PSTMAA4012-6R8MB	6.8	20%	132	160	2.8	3.8
PSTMAA4012-100MB	10	20%	200	235	2.5	2.8
PSTMAA4015-4R7MB	4.7	20%	53	63	5	5.5
PSTMAA4015-5R6MB	5.6	20%	66	80	4.5	4.8
PSTMAA4020-R10MB	0.1	20%	1.3	1.9	30	30.5
PSTMAA4020-R22MB	0.22	20%	2.2	3.5	19	19
PSTMAA4020-R33MB	0.33	20%	5	6	9.5	18
PSTMAA4020-R47MG	0.47	20%	7	8.5	8.5	16
PSTMAA4020-1R0MG	1	20%	12	14.5	6.5	12.5
PSTMAA4020-1R5MG	1.5	20%	18	22	6	10.5
PSTMAA4020-2R2MG	2.2	20%	30	36	5.5	9.5
PSTMAA4020-3R3MG	3.3	20%	35	40	6.3	8
PSTMAA4020-4R7MG	4.7	20%	47	58	5	6.3
PSTMAA4020-6R8MG	6.8	20%	90	105	3.7	5.4
PSTMAA4020-100MG	10	20%	113	135	3.4	4.9
PSTMAA4020-150MG	15	20%	210	250	2.3	3.5
PSTMAA4020-220MG	22	20%	275	330	1.8	2.9
PSTMAA4030-R33MB	0.33	20%	4.5	6	16	25
PSTMAA4030-R47MB	0.47	20%	5.5	7	15	23
PSTMAA4030-R56MB	0.56	20%	6	7.5	15	22
PSTMAA4030-R68MB	0.68	20%	8.3	10	9.5	17
PSTMAA4030-1R0MG	1	20%	10	12	10	15.5
PSTMAA4030-1R5MG	1.5	20%	15	18	6.5	12.5
PSTMAA4030-2R2MG	2.2	20%	19	22	9	10.5
PSTMAA4030-3R3MG	3.3	20%	30	35	5.3	8.5
PSTMAA4030-4R7MB	4.7	20%	36	42	6	7.8
PSTMAA4030-6R8MB	6.8	20%	51	62	4.2	6.3
PSTMAA4030-8R2MB	8.2	20%	90	102	3.9	5.2
PSTMAA4030-100MB	10	20%	92	110	3.7	4.9
PSTMAA4030-220MB	22	20%	190	220	2.5	3.4
PSTMAA4030-470MB	47	20%	480	530	1.4	2.2

产品编码 P/N	PSTMAA1608~4030 Series	测试设备 TEST INSTRUMENT	Chroma 3302 16502
产品系列 Series	扁平线一体成型电感	测试频率 TEST FREQUENCY	1MHZ / 1V

焊接温度（推荐）

Recommended Classification Wave Soldering Profile



Classification Reflow Soldering Profile:

Profile Feature	Item	Value
Preheat Temperature Min	Ts min	150 °C
Preheat Temperature Max	Ts max	200 °C
Preheat Time t_s from $T_{s\ min}$ to $T_{s\ max}$	ts	60 - 120 seconds
Ramp-up Rate (TL to TP)		3 °C/ second max.
Liquidous Temperature	TL	217 °C
Time t_L maintained above TL	tL	60 - 150 seconds
Peak package body temperature	Tp	$T_p \leq T_c$, see Table below
Time within 5°C of actual peaktemperature	t p	20 - 30 seconds
Ramp-down Rate (TP to TL)		6 °C/ second max.
Time 25°C to peak temperature		8 minutes max.

Package Classification Reflow Temperature (T_c):

Properties	Volume mm ³ <350	Volume mm ³ 350-2000	Volume mm ³ >2000
PB-Free Assembly Package Thickness < 1.6 mm	260°C	260°C	260°C
PB-Free Assembly Package Thickness 1.6 mm - 2.5 mm	260°C	250°C	245°C
PB-Free Assembly Package Thickness > 2.5 mm	250°C	245°C	245°C

* 参考标准: IPC/ JEDEC J-STD-020E refer standard to: IPC/ JEDEC J-STD-020E



产品编码 P/N	PSTMAA1608~4030 Series	测试设备 TEST INSTRUMENT	Chroma 3302 16502
产品系列 Series	扁平线一体成型电感	测试频率 TEST FREQUENCY	1MHZ / 1V

机械可靠性测试

Mechanical Reliability

实验名称 ITEM	试验要求 Specification & Requirement	试验方法 Method Used
可焊性实验 Solderability	The surface of terminal/pin tested shall be covered with new solder by 95%	Solder heat proof: Preheating: 180 ±10°C 90 seconds Soldering: 255 ±5°C for 3 ±1 sec
机械冲击 Shock	Inductance change within ± 5% Without mechanical damage SMD Molding Ind	Drop down with 981m/s ² (100G) shock Attitude upon a rubber block method shock testing machinem, 3 tests.
振动实验 Vibration	Inductance change within ± 5% Without mechanical damage	Vibration frequency: 10Hz to 55Hz to 10Hz 60 seconds cycle Vibration time: 2 hours

老化测试

Aging Reliability

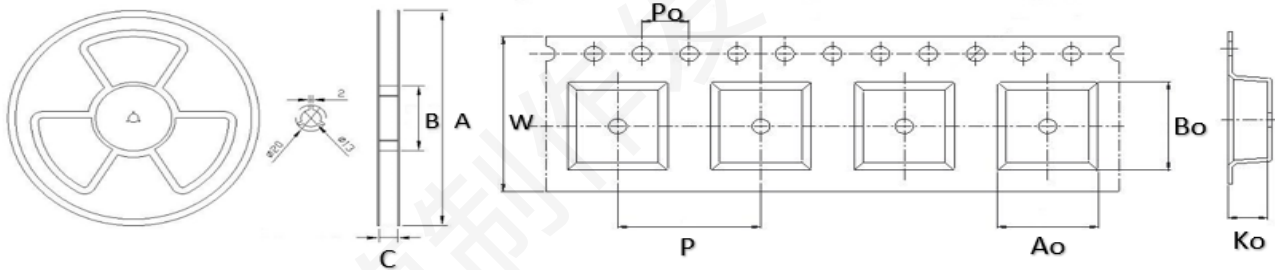
实验名称 ITEM	试验要求 Specification & Requirement	试验方法 Method Used
冷热冲击 Thermal Shock	Inductance change within ± 5% Without mechanical damage	-55°C, (30 mins) -> room temp. (5 mins) -> 125°C, (30 mins) -> room temp. (5 mins) 100 cycles
耐热性 Heat Resistance	Inductance change within ± 5% Without mechanical damage	Apply IDC current @ 85°C ambient Duration: 1000 hrs
耐湿性 Humidity Resistance	Inductance change within ± 5% Without mechanical damage	Apply IDC current @ 60°C ambient Humidity: 90~95% Duration: 1000 hrs
低温存储实验 Low Temp. Storing	Inductance change within ± 5% Without mechanical damage	Storing Temp. -55 ±2 °C for total 1,000 +4/-0 hours
高温存储实验 High Temp. Storing	Inductance change within ± 5% Without mechanical damage	Storing Temp. 125 ±2 °C for total 1,000 +4/-0 hours



产品编码 P/N	PSTMAA1608~4030 Series	测试设备 TEST INSTRUMENT	Chroma 3302 16502
产品系列 Series	扁平线一体成型电感	测试频率 TEST FREQUENCY	1MHZ / 1V

载带卷盘尺寸 : (mm)

Packing Dimension



系列 Series	最小包装 MPQ	A	B	C	W	P	Po	Ao	Bo	Ko
1005	5000pcs	178	60	13	8.0	4.0	4.0	0.9	1.25	0.8
10075	5000pcs	178	60	13	8.0	4.0	4.0	0.9	1.25	0.8
160865	3000pcs	178	60	13	8.0	4.0	4.0	1.0	1.82	0.8
160808	3000pcs	178	60	13	8.0	4.0	4.0	1.04	1.82	0.95
141265	3000pcs	178	60	13	8.0	4.0	4.0	1.5	1.7	0.8
141208	3000pcs	178	60	13	8.0	4.0	4.0	1.5	1.7	0.95
201265	3000pcs	178	60	13	8.0	4.0	4.0	1.4	2.25	0.8
201208	3000pcs	178	60	13	8.0	4.0	4.0	1.5	2.3	1.0
201210	3000pcs	178	60	13	8.0	4.0	4.0	1.5	2.35	1.2
201212	3000pcs	178	60	13	8.0	4.0	4.0	1.5	2.35	1.4
201665	3000pcs	178	60	13	8.0	4.0	4.0	1.95	2.45	0.8
201608	3000pcs	178	60	13	8.0	4.0	4.0	1.9	2.35	1.0
201610	3000pcs	178	60	13	8.0	4.0	4.0	1.95	2.35	1.2
201612	3000pcs	178	60	13	8.0	4.0	4.0	1.9	2.3	1.35
252010	3000pcs	178	60	13	8.0	4.0	4.0	2.45	2.8	1.2
252012	3000pcs	178	60	13	8.0	4.0	4.0	2.35	2.8	1.35
322510	3000pcs	178	60	13	8.0	4.0	4.0	2.8	3.5	1.2
322512	3000pcs	178	60	13	8.0	4.0	4.0	2.9	3.5	1.15
322520	2000pcs	178	60	13	8.0	4.0	4.0	2.9	3.5	1.35
3010	3000pcs	330	100	13	12	8.0	4.0	3.4	3.4	1.2
3012	3000pcs	330	100	13	12	8.0	4.0	3.4	3.4	1.4
3015	3000pcs	330	100	13	12	8.0	4.0	3.4	3.4	1.7
3018	3000pcs	330	100	13	12	8.0	4.0	3.25	3.25	2.0
3020	3000pcs	330	100	13	12	8.0	4.0	3.4	3.4	2.2
4010	3000pcs	330	100	13	12	8.0	4.0	4.4	4.4	1.3
4012	3000pcs	330	100	13	12	8.0	4.0	4.4	4.4	1.3
4015	3000pcs	330	100	13	12	8.0	4.0	4.4	4.4	1.7
4020	3000pcs	330	100	13	12	8.0	4.0	4.4	4.4	2.2
4030	2000pcs	330	100	13	12	8.0	4.0	4.4	4.4	3.2

* 上述尺寸均为典型尺寸Typ. The tolerance of the dimensions is Typ



注意事项

使用本产品时，请注意以下事项

- ◎ 产品保存期限为12个月，保存条件：温度5~40℃，湿度10~75%RH以内，超过保存期限可能会使元器件电极发生氧化，存储标准可参照：IEC_61760-2-2021
This components storage life is 12 months, Storage Temperature: TEMP.5~40℃; RH10%~75%. Please use this components within the warranty period. refer standard to: IEC_61760-2-2021
- ◎ 请勿在极端环境下使用和保存（高盐，强酸，强碱，强辐射等）。
Do not use this component in special environments, such as high salt content, strong acid, strong alkali, strong corrosion and other special environments.
- ◎ 焊接前请先预热，预热与焊接温度之间温差建议控制在150℃以内；焊接标准参考：IPC/ JEDEC J-STD-020E
Please preheat the product before welding; it is recommended to control the preheating temperature and welding temperature within 150℃. refer standard to: IPC/ JEDEC J-STD-020E
- ◎ 元器件焊接后需重新拆卸焊接修正时，请遵循规格书规定的条件范围；过高的加热温度以及反复的拆卸可能会导致元器件失效。
When repairing this component, the temperature used for disassembly should not exceed the datasheet limit and do not disassemble it frequently to prevent damage to the component.
- ◎ 请勿用清洗剂、丙酮等腐蚀性液体接触该元器件，这可能会侵蚀元器件本体以至于失效。
Do not use acetone or other corrosive liquids to contact this component or it will cause it to fail.
- ◎ 元器件焊接到线路板后，请注意不可因线路板整体变形或局部变形而施加给电感剩余应力，这可能会导致元器件脱落、破损失效。
When this component is soldered to the circuit board, you need to pay attention to the stress applied to it by the PCB, which may cause it to fall off or damaged fail.
- ◎ 元器件通电后温度会随电流的增大而上升，设计时请务必考虑留有余量。
Self heating (Rated Current or Irms) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- ◎ 过高的静电会损坏该元器件，请注意静电防护。
Too high static electricity will cause permanent damage to the product, please pay attention to electrostatic protection.
- ◎ 本元器件作为磁性产品，设计时请务必考虑周边元器件与本产品可能产生的耦合效应影响。
This magnetic component needs to be considered for coupling effects in the application.
- ◎ 谱罗德并不能完全掌握或熟悉客户的特定应用以及要求，贵司有责任和义务验证此元器件以及元器件规格书中的描述是否满足于贵司的设计要求；需要指出是：即使按照现有的技术标准操作，该元器件依然有几率在典型寿命结束前发生故障，谱罗德强烈建议贵司对于该元器件在一些典型的严苛应用中，例如安规产品，工业产品、医疗产品、车载产品、航空/航天等产品应用，对于该元器件可能存在的失效情况做适当的冗余设计，以此避免该元器件在失效时造成严重后果；特别提醒：对于特定的应用对象谱罗德强烈要求贵司同谱罗德取得书面的许可，否则谱罗德不予承担元器件失效带来的任何责任，特定对象包括且不限于：车用，航空航天，安规产品，军用以及贵司对元器件有严苛要求的产品。
PROD cannot fully understand and be familiar with customers' specific applications and requirements. Your company has the responsibility and obligation to verify whether the components and the description in the component specification meet your design requirements. Special reminder: Even if operated in accordance with existing technical standards, this component still has a chance of failure before the end of its typical life. PROD strongly recommends that your company make appropriate redundant designs for possible failure situations of this component in some typical harsh applications, such as safety products, industrial products, medical products, automotive products, aviation/aerospace products, etc., so as to avoid serious consequences when the component fails.
PROD Requirements: For specific application item, PROD strongly requires your (or company) to obtain written permission from PROD, otherwise PROD will not bear any responsibility for component failure. Specific item list include but are not limited to: automotive, aerospace, safety products, military and products that your company has strict requirements on components.

