



產品編碼 P/N	PSTMAA1608~1510 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	扁平线一体成型电感	測試頻率 TEST FREQUENCY	1608~0403: 1MHZ / 1V 0502~1510: 100KHZ / 0.1V

客戶名稱 :
 Customer :

 客戶編碼 :
 Customer P/N :

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

 產品編碼 : PSTMAA1608~1510 Series
 Supply P/N :

 發版號 : A3.0
 Version :

 承認日期 : 2022-11-18
 Endorsement Date :

 備註 :
 Note :

譜羅德電子科技（深圳）有限公司 PuLuoDe Electronic Technology (Shenzhen) Co. LTD	
製作 APPROVED	Ben
審查 CHECKED	Yuki
確認 PREPARED	Peter

客戶承認 Customer Approval

客戶簽章



A3.0

修訂記錄

REVISION RECORD



產品編碼 P/N	PSTMAA1608~1510 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
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Version	REVISION ITEM	BEFORE REVISION	AFTER REVISION	DATE
A3.0	First Version			2022-11-18



譜羅德電子科技（深圳）有限公司
 PuLuoDe Electronic Technology (Shenzhen) Co., LTD
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 下載或者掃描二維碼通過微信小程序
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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



編碼解釋

Code interpretation

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

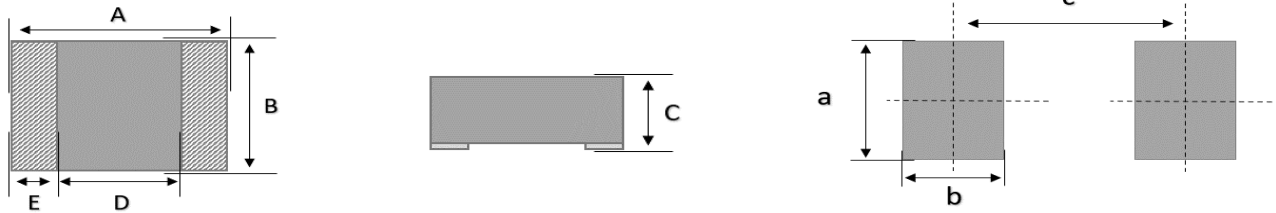
- ◎ 規格參數基於環境溫度25℃取得
All test Data is referenced to 25℃ ambient
- ◎ 電感工作環境溫度：-40℃ ~ 125℃
Operating temperature range -40℃ to +125℃
- ◎ 加載溫升電流（I_{rms}）會使電感溫度上升大約 40℃（電感初始溫度+上升溫度=電感最終溫度）
Typical I_{rms} would cause an approximately ΔT of 40℃
- ◎ 加載飽和電流（ISAT）會使感量下降大約30%
Typical ISAT would cause L_o to drop approximately 30%.
- ◎ 請從溫升電流（IRMS）和飽和電流（ISAT）中選取一個最小值作為額定電流
Choose a minimum of IRMS and ISAT as the rated current
- ◎ 務必考慮最終的產品設計，元器件佈局，線路板走線，以及使用環境過程中，電感最終溫度不得超過125℃
The operating temperature of inductance do not exceed 125℃
- ◎ 使用電感時，請查閱第15頁注意事項
The announcements is on page 16



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封裝尺寸 (mm)

Dimension



系列 Series	封裝尺寸 Dimension					焊盤尺寸 Land Pattern		
	A	B	C	D	E	a	b	c
1608(0603)	1.6±0.2	0.8±0.2	0.8MAX	0.6 Ref	0.5 Ref	0.8 Typ	0.6 Typ	1.4 Typ
2012(0805)	2.0±0.2	1.2±0.2	0.8MAX	0.7 Ref	0.65 Ref	0.8 Typ	1.2 Typ	1.8 Typ
201610	2.0±0.2	1.6±0.2	1.0MAX	0.7 Ref	1.3 Ref	1.6Typ	0.55Typ	1.45Typ
252010	2.5±0.2	2.0±0.2	1.0MAX	0.7 Ref	1.8 Ref	2.0Typ	0.8Typ	2.0Typ

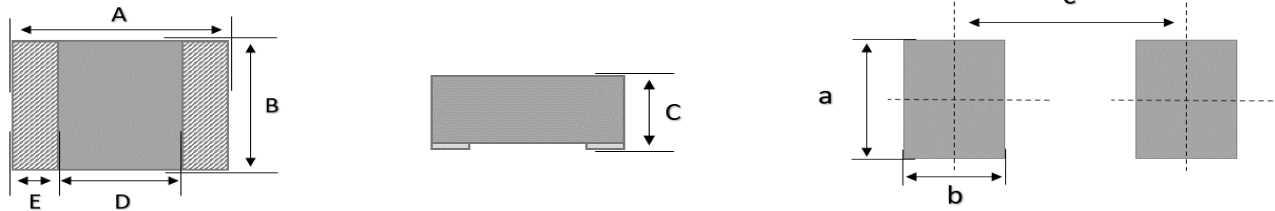
1608~201610 Series

產品編碼 P/N	@ 25 °C Ambient Temperature					
	感值 Inductance	公差 Tolerance	DCR		溫升電流 (IRMS)	飽和電流 (ISAT)
			mΩ		A	A
	μH @1MHZ	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSTMAA1608-R47M	0.47	20%	36	43	3.5	3.4
PSTMAA1608-R56M	0.56	20%	50	60	3.4	3
PSTMAA1608-1R0M	1.0	20%	95	110	2	2.3
PSTMAA1608-2R2M	2.2	20%	350	400	0.82	0.9
PSTMAA1608-3R3M	3.3	20%	530	560	0.75	0.8
PSTMAA2012-R24M	0.24	20%	16	19	5.2	6.7
PSTMAA2012-R47M	0.47	20%	23	27	4.2	5
PSTMAA2012-1R0M	1.0	20%	50	56	2.8	3.7
PSTMAA2012-2R2M	2.2	20%	84	100	2.1	2.9
PSTMAA201610-R10M	0.10	20%	10	12	6	8
PSTMAA201610-R24M	0.24	20%	12	15	5.6	7.8
PSTMAA201610-R33M	0.33	20%	13	16	5.3	7.6
PSTMAA201610-R47M	0.47	20%	17	20	4.8	6
PSTMAA201610-R68M	0.68	20%	25	32	4.6	5.2
PSTMAA201610-1R0M	1.0	20%	42	46	3.3	4.8
PSTMAA201610-1R5M	1.5	20%	80	85	2.7	3.9
PSTMAA201610-2R2M	2.2	20%	90	96	2.2	3.5
PSTMAA201610-3R3M	3.3	20%	140	170	1.7	2.3
PSTMAA201610-4R7M	4.7	20%	200	220	1.6	2.1
PSTMAA252010-R33M	0.33	20%	10	12	6.0	8.0
PSTMAA252010-R47M	0.47	20%	12	15	5.6	7.8
PSTMAA252010-1R0M	1.0	20%	13	16	5.3	7.6
PSTMAA252010-1R5M	1.5	20%	17	20	4.8	6.0
PSTMAA252010-2R2M	2.2	20%	42	46	3.3	4.8
PSTMAA252010-4R7M	4.7	20%	80	85	2.7	3.9
PSTMAA252010-100M	10	20%	90	96	2.2	3.5

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封裝尺寸 (mm)

Dimension



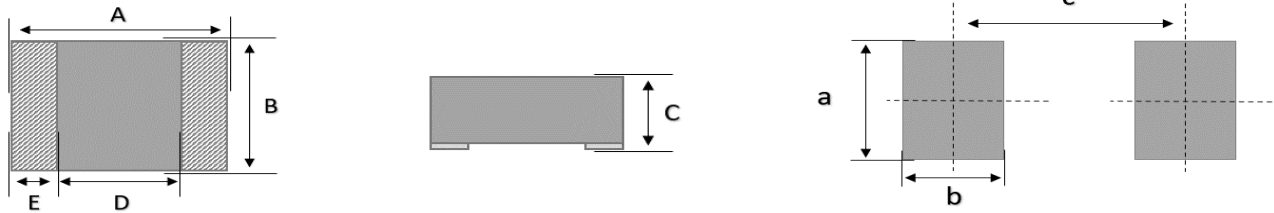
系列 Series	封裝尺寸 Dimension					焊盤尺寸 Land Pattern		
	A	B	C	D	E	a	b	c
3225(1210)	3.2±0.2	2.5±0.2	1.2MAX	0.9 Ref	1.15 Ref	2.5 Typ	1.3 Typ	2.1 Typ
0415	4.2±0.2	4.2±0.2	1.6MAX	1.4 Ref	1.3 Ref	4.5 Typ	1.5 Typ	2.7 Typ

3225~0403 Series

產品編碼 P/N	@ 25 °C Ambient Temperture					
	感值	公差	DCR		溫升電流 (IRMS)	飽和電流 (ISAT)
	Inductance	Tolerance	mΩ		A	A
	μH @1MHZ	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSTMAA3225-R24M	0.24	20%	7	12	9	11
PSTMAA3225-R33M	0.33	20%	9	14	8.4	10
PSTMAA3225-R47M	0.5	20%	14	19	7.5	8.6
PSTMAA3225-R68M	0.7	20%	18	23	7.3	8.1
PSTMAA3225-1R0M	1.0	20%	26	30	5.3	6.6
PSTMAA3225-1R5M	1.5	20%	37	44	4.7	5.1
PSTMAA3225-2R2M	2.2	20%	58	70	3.6	4.6
PSTMAA3225-3R3M	3.3	20%	75	95	2.9	3.7
PSTMAA3225-4R7M	4.7	20%	115	135	2.3	2.9
PSTMAA0415-R47M	0.47	20%	5.7	6.2	10.8	10.3
PSTMAA0415-R68M	0.68	20%	8.1	8.9	8.8	8.3
PSTMAA0415-R82M	0.82	20%	9.4	10.5	8.1	7.6
PSTMAA0415-1R0M	1.0	20%	10.6	11.8	7.5	7

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封装尺寸
Dimension (mm)



系列 Series	封装尺寸 Dimension					焊盤尺寸 Land Pattern		
	A	B	C	D	E	a	b	c
0402	4.2±0.2	4.2±0.2	2.1MAX	1.4 Ref	1.3 Ref	4.5 Typ	1.5 Typ	2.7 Typ
0403	4.2±0.2	4.2±0.2	3.1MAX	1.4 Ref	1.3 Ref	4.5 Typ	1.5 Typ	2.7 Typ

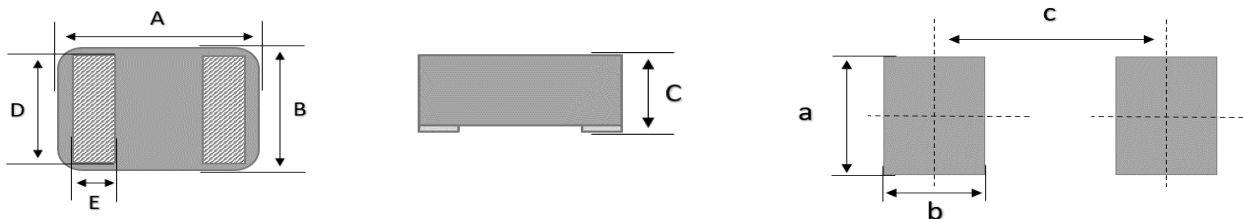
0402~0403 Series

產品編碼 P/N	@ 25 °C Ambient Temperture					
	感值	公差	DCR		溫升電流 (IRMS)	飽和電流 (ISAT)
	Inductance	Tolerance	mΩ		A	A
	μH @1MHZ	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSTMAA0402-R33M	0.33	20%	2.8	3.1	16.1	16.1
PSTMAA0402-R47M	0.47	20%	4.1	4.6	13.4	13.4
PSTMAA0402-R56M	0.56	20%	5.1	5.7	10.6	10.3
PSTMAA0402-R68M	0.68	20%	5.6	4.6	10.5	10.2
PSTMAA0402-R82M	0.82	20%	6.5	7.2	9.3	9.3
PSTMAA0402-1R0M	1.0	20%	7.6	8.4	8.8	8.8
PSTMAA0402-1R5M	1.5	20%	12.4	13.6	7.9	7.9
PSTMAA0402-2R2M	2.2	20%	21	22.5	7.1	7.1
PSTMAA0402-3R3M	3.3	20%	25	28	4.7	5.4
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PSTMAA0403-R33M	0.33	20%	2.5	3	16.5	14.8
PSTMAA0403-R47M	0.47	20%	3.1	3.5	14.5	14.5
PSTMAA0403-R56M	0.56	20%	3.5	3.9	14	14
PSTMAA0403-R68M	0.68	20%	3.8	4.3	12.5	12.5
PSTMAA0403-1R0M	1.0	20%	5.5	6.2	11.8	11.8
PSTMAA0403-1R5M	1.5	20%	7.8	8.6	9.6	9.6
PSTMAA0403-2R2M	2.2	20%	10.7	11.8	8.1	8.1
PSTMAA0403-3R3M	3.3	20%	16	17.7	6.5	6.5
PSTMAA0403-4R7M	4.7	20%	21.5	23.4	5.5	5.5

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封装尺寸 (mm)

Dimension



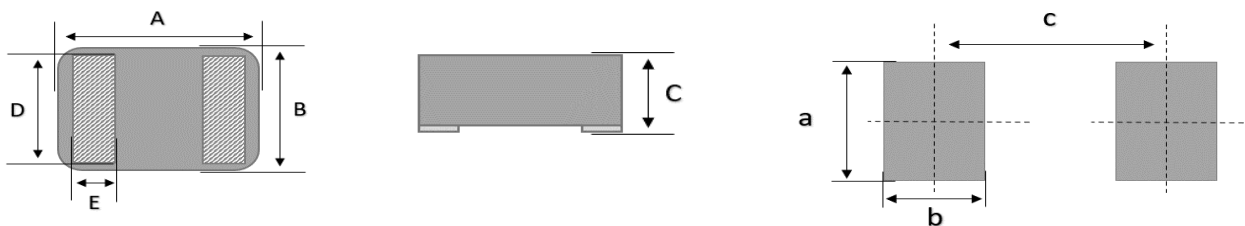
系列	封装尺寸 Dimension					焊盘尺寸 Land Pattern		
	A	B	C	D	E	a	b	c
0502	5.5±0.2	5.3±0.2	2.1MAX	4.3 Ref	1.1 Ref	4.7 Typ	1.4 Typ	1.3 Typ
0503	5.5±0.2	5.3±0.2	3.1MAX	4.3 Ref	1.1 Ref	4.7 Typ	1.4 Typ	1.3 Typ
0505	5.5±0.2	5.3±0.2	5.1MAX	4.3 Ref	1.1 Ref	4.7 Typ	1.4 Typ	1.3 Typ

0502~0505 Series

產品編碼 P/N	@ 25 °C Ambient Temperature					
	感值 Inductance	公差 Tolerance	DCR		溫升電流 (IRMS)	飽和電流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSTMAA0502B-R15M	0.15	20%	4	4.6	19	30
PSTMAA0502B-R33M	0.33	20%	6.2	7	15	26
PSTMAA0502B-R47M	0.47	20%	7.2	8.1	14.5	22
PSTMAA0502B-R56M	0.56	20%	8.5	9.5	14	19
PSTMAA0502B-R68M	0.68	20%	9.1	10.2	13.5	16
PSTMAA0502B-R82M	0.82	20%	10.9	12.7	12	15
PSTMAA0502B-1R0M	1.0	20%	11.5	13.8	10.5	14.5
PSTMAA0502B-1R5M	1.5	20%	16.2	18.7	8.8	13.3
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PSTMAA0503B-R15M	0.15	20%	1.9	2.31	22.5	36
PSTMAA0503B-R33M	0.33	20%	3.1	3.52	19.5	28
PSTMAA0503B-R47M	0.47	20%	3.4	4.13	18.5	26
PSTMAA0503B-R56M	0.56	20%	3.9	4.52	18	22.2
PSTMAA0503B-R82M	0.82	20%	5	5.78	13	19.7
PSTMAA0503B-1R0M	1.0	20%	6.7	7.6	12.5	16.5
PSTMAA0503B-1R5M	1.5	20%	10.3	11.2	10.5	14
PSTMAA0503B-2R2M	2.2	20%	12.4	14.5	10	9.7
PSTMAA0503B-3R3M	3.3	20%	20.3	23.1	8.1	9.5
PSTMAA0503B-4R7M	4.7	20%	32.3	36.3	6	8.2
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PSTMAA0505B-5R6M	5.6	20%	21.3	24.2	7.2	8.6
PSTMAA0505B-6R8M	6.8	20%	25.4	28.6	6.5	7.8
PSTMAA0505B-8R2M	8.2	20%	29.3	32.5	6.1	7.2
PSTMAA0505B-100M	10.0	20%	39.7	43	5	6.5

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封装尺寸 Dimension (mm)



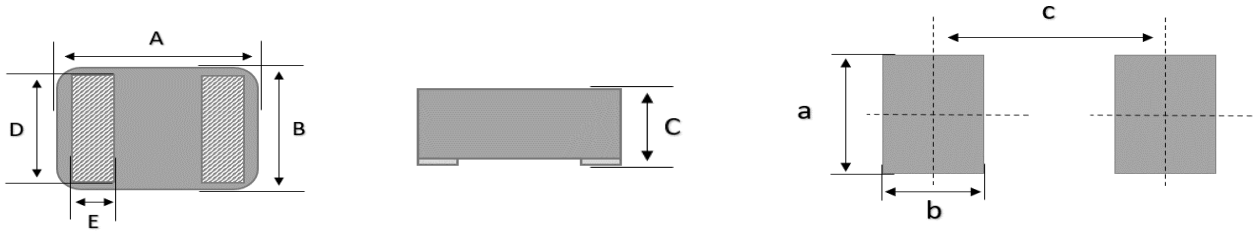
系列 Series	封装尺寸 Dimension					焊盤尺寸 Land Pattern		
	A	B	C	D	E	a	b	c
0603	6.6±0.2	6.4±0.2	3.1MAX	5.3 Ref	1.4 Ref	5.6 Typ	1.7 Typ	4.0 Typ
0605	6.6±0.2	6.4±0.2	5.0MAX	5.3 Ref	1.4 Ref	5.6 Typ	1.7 Typ	4.0 Typ
0606	6.6±0.2	6.4±0.2	6.0MAX	5.3 Ref	1.4 Ref	5.6 Typ	1.7 Typ	4.0 Typ

0603~0606 Series

產品編碼 P/N	@ 25 °C Ambient Temperature					
	感值 Inductance	公差 Tolerance	DCR		溫升電流 (IRMS)	飽和電流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSTMAA0603B-R33M	0.33	20%	2.1	2.5	25	32
PSTMAA0603B-R56M	0.56	20%	2.8	3.31	22	29
PSTMAA0603B-R68M	0.68	20%	4.4	5.17	20	25
PSTMAA0603B-1R0M	1.0	20%	5.2	6.05	18	23
PSTMAA0603B-1R5M	1.5	20%	7.9	9.13	15	20
PSTMAA0603B-2R2M	2.2	20%	10.4	12.2	10	16
PSTMAA0603B-3R3M	3.3	20%	18.2	20.8	8	12.2
PSTMAA0603B-4R7M	4.7	20%	23.5	26	6	9
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PSTMAA0605B-1R0M	1.0	20%	4	4.52	20	23
PSTMAA0605B-1R5M	1.5	20%	5	5.83	17	19.5
PSTMAA0605B-2R2M	2.2	20%	7.6	8.5	13	16
PSTMAA0605B-3R3M	3.3	20%	10.8	12.5	11	12.5
PSTMAA0605B-4R7M	4.7	20%	16.2	18.4	8.5	10.5
PSTMAA0605B-5R6M	5.6	20%	19.5	22	7	8.3
PSTMAA0605B-6R8M	6.8	20%	23.2	25.4	6.6	7
PSTMAA0605B-8R2M	8.2	20%	28.4	31.5	6.2	6.8
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PSTMAA0606B-1R0M	1.0	20%	3.8	4.4	21	24
PSTMAA0606B-1R5M	1.5	20%	5.2	6.1	17.5	20
PSTMAA0606B-2R2M	2.2	20%	7.2	8.1	14	16.5
PSTMAA0606B-3R3M	3.3	20%	11.2	12.3	12	13
PSTMAA0606B-4R7M	4.7	20%	12.8	14.4	10.5	11
PSTMAA0606B-5R6M	5.6	20%	13.5	15.9	10	10
PSTMAA0606B-6R8M	6.8	20%	18.2	20.8	9	9.2
PSTMAA0606B-8R2M	8.2	20%	24.6	26.4	8	8.4
PSTMAA0606B-100M	10.0	20%	26.8	29.8	7	7.6
PSTMAA0606B-150M	15.0	20%	39.5	43.7	6	6
PSTMAA0606B-220M	22.0	20%	55.6	60.6	5	5.6

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封装尺寸 (mm)
Dimension



系列	封装尺寸 Dimension					焊盤尺寸 Land Pattern		
	A	B	C	D	E	a	b	c
0703	7.8±0.2	7.6±0.2	3.1MAX	6.9 Ref	1.8 Ref	7.2 Typ	2.1 Typ	5.0 Typ
0707	7.8±0.2	7.6±0.2	7.0MAX	6.9 Ref	1.8 Ref	7.3 Typ	2.2 Typ	5.1 Typ

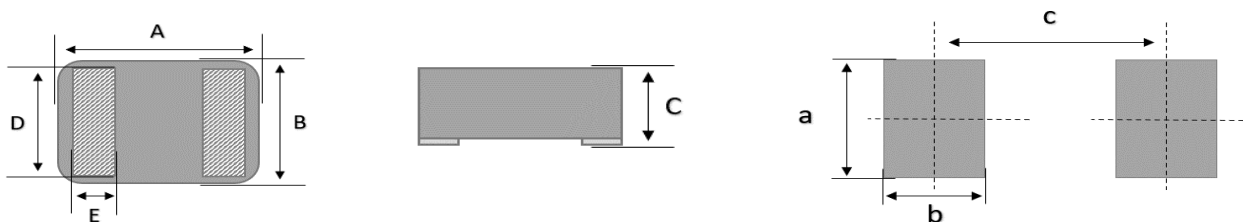
0703~0707 Series

產品編碼 P/N	@ 25 °C Ambient Temperature					
	感值 Inductance	公差 Tolerance	DCR		溫升電流 (IRMS)	飽和電流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSTMAA0703B-1R0M	1.0	20%	4.5	5	22	30
PSTMAA0703B-1R5M	1.5	20%	7.6	8.25	15.5	25
PSTMAA0703B-2R2M	2.2	20%	11.6	13.7	13	19
PSTMAA0703B-3R3M	3.3	20%	16	18	10	15
PSTMAA0703B-4R7M	4.7	20%	24.2	26.7	9	13.5
PSTMAA0703B-5R6M	5.6	20%	30.2	33.2	7.5	12.5
PSTMAA0703B-6R8M	6.8	20%	38.9	42.5	7	12
PSTMAA0703B-8R2M	8.2	20%	44.5	48.7	6	10.2
PSTMAA0707B-3R3M	3.3	20%	8.7	9.42	15.5	19.4
PSTMAA0707B-4R7M	4.7	20%	12.8	14.3	14	15.2
PSTMAA0707B-6R8M	6.8	20%	17.8	19.6	9.5	12.8



產品編碼 P/N	PSTMAA1608~1510 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	扁平线一体成型电感	測試頻率 TEST FREQUENCY	1608-0403: 1MHZ / 1V 0502~1510: 100KHZ / 0.1V

封裝尺寸
Dimension (mm)



系列 Series	封裝尺寸 Dimension					焊盤尺寸 Land Pattern		
	A	B	C	D	E	a	b	c
1030	11.9±0.3	11±0.3	3.1MAX	9.0 Ref	2.4 Ref	11 Typ	3.0 Typ	6.8 Typ
1060	11.9±0.3	11±0.3	6.0MAX	9.0 Ref	2.4 Ref	11 Typ	3.0 Typ	6.8 Typ
1010	11.9±0.3	11±0.3	10.0MAX	9.0 Ref	2.4 Ref	11 Typ	3.0 Typ	6.8 Typ

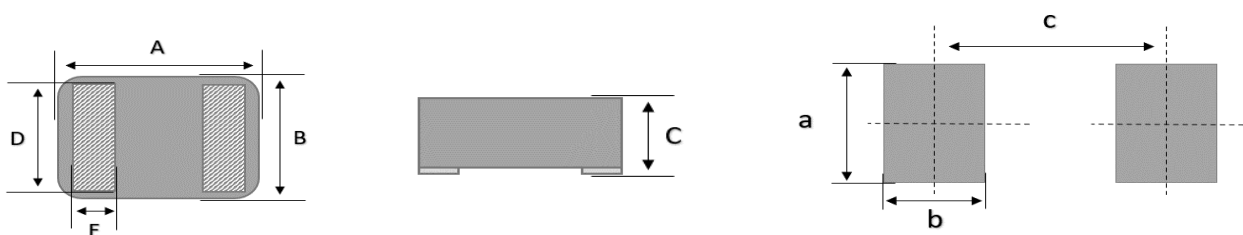
1030~1010 Series

產品編碼 P/N	@ 25 °C Ambient Temperature					
	感值	公差	DCR		溫升電流 (IRMS)	飽和電流 (ISAT)
	Inductance	Tolerance	mΩ		A	A
	μH	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSTMAA1030B-R56M	0.56	20%	2.4	2.75	32	44
PSTMAA1030B-R82M	0.82	20%	3.6	4.1	25	38
PSTMAA1030B-1R0M	1.0	20%	4.4	4.95	23	35
PSTMAA1030B-1R5M	1.5	20%	5.8	6.6	18	30
PSTMAA1060B-R68M	0.7	20%	1.2	1.5	34	55
PSTMAA1060B-1R0M	1.0	20%	2	2.32	28.5	48
PSTMAA1060B-1R5M	1.5	20%	2.8	3.3	24.5	40
PSTMAA1060B-2R2M	2.2	20%	4.2	4.84	20	35
PSTMAA1060B-3R3M	3.3	20%	6.8	7.7	16.8	28
PSTMAA1060B-4R7M	4.7	20%	9.6	10.8	14	25
PSTMAA1010B-3R3M	3.3	20%	3.6	4.1	25	27.4
PSTMAA1010B-4R7M	4.7	20%	4.9	5.7	24	25.4
PSTMAA1010B-5R6M	5.6	20%	6.5	7.2	21.2	23.6
PSTMAA1010B-6R8M	6.8	20%	8.1	8.9	18.5	21.8
PSTMAA1010B-8R2M	8.2	20%	10.8	12.4	17.1	18.3
PSTMAA1010B-100M	10.0	20%	11.3	13.8	15.5	17.5
PSTMAA1010B-150M	15.0	20%	17.2	19.3	13.8	15.5



產品編碼 P/N	PSTMAA1608~1510 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	扁平线一体成型电感	測試頻率 TEST FREQUENCY	1608~0403: 1MHZ / 1V 0502~1510: 100KHZ / 0.1V

封裝尺寸 (mm)
Dimension



系列	封裝尺寸 Dimension					焊盤尺寸 Land Pattern		
	A	B	C	D	E	a	b	c
1510	16.5±0.3	15.5±0.3	10.0MAX	13.2 Ref	3.2 Ref	15 Typ	4.5 Typ	10.5 Typ

1510 Series

產品編碼 P/N	@ 25 °C Ambient Temperature					
	感值	公差	DCR		溫升電流 (IRMS)	飽和電流 (ISAT)
	Inductance	Tolerance	mΩ		A	A
	μH	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSTMAA1510-2R2M	2.2	20%	2	2.5	37	49
PSTMAA1510-3R0M	3.0	20%	2.4	3	34.5	41
PSTMAA1510-4R7M	4.7	20%	3	3.8	29	39
PSTMAA1510-5R6M	5.6	20%	3.5	4.2	28	37
PSTMAA1510-6R8M	6.8	20%	4	4.6	26	36
PSTMAA1510-8R2M	8.2	20%	6.5	7.2	24	30
PSTMAA1510-100M	10.0	20%	7.8	8.6	22	26.5
PSTMAA1510-150M	15.0	20%	10.2	11.5	18	23
PSTMAA1510-220M	22.0	20%	14.2	15.8	14	18.7
PSTMAA1510-330M	33.0	20%	17	20	12	16.7

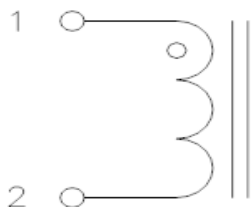


特性 CHARACTERISTICS



產品編碼 P/N	PSTMAA1608~1510 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	扁平线一体成型电感	測試頻率 TEST FREQUENCY	1608~0403: 1MHZ / 1V 0502~1510: 100KHZ / 0.1V

電路結構 Connections



◎ 電感內置一組線圈
Inductor Contents one (1) Set(s) of Coil

实物图示 Picture



◎ 0410以下尺寸顶部不喷码印字
Size 201610~0410 series no marking

产品结构 Product Structure

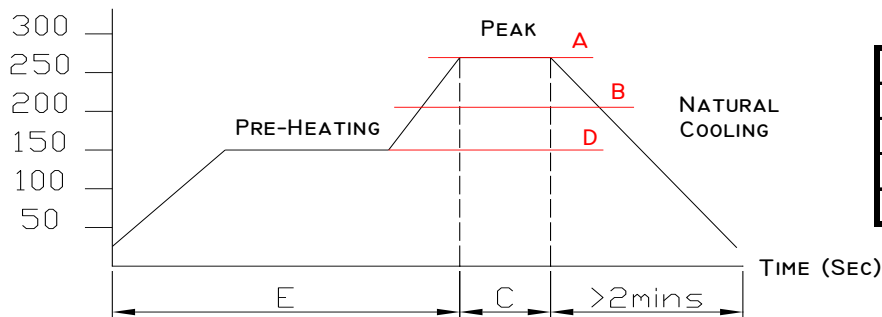


- 1: 磁芯 / Core
- 2: 電極 / Electrode
- 3: 線圈 / coil

焊接溫度（推荐）

Recommended Soldering Temperature Graph

TEMPERATURE (°C)



A	260°C
B	230°C
C	10 Sec
D	150°C
E	60~240 Sec



產品編碼 P/N	PSTMAA1608~1510 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	扁平线一体成型电感	測試頻率 TEST FREQUENCY	1608~0403: 1MHZ / 1V 0502~1510: 100KHZ / 0.1V

机械可靠性测试

Mechanical Reliability

實驗名稱 ITEM	試驗要求 Specification & Requirement	試驗方法 Method Used
可焊性實驗 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
機械衝擊 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.
振動實驗 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

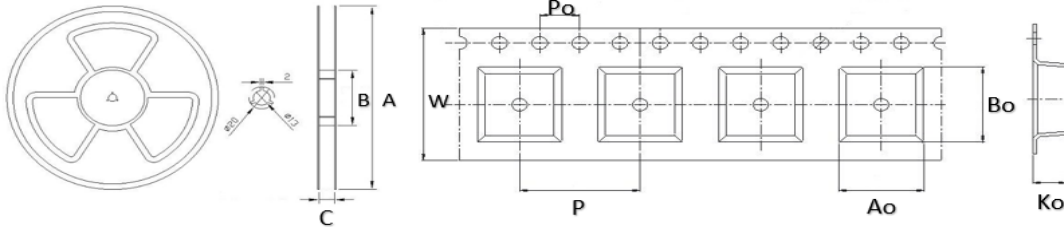
實驗名稱 ITEM	試驗要求 Specification & Requirement	試驗方法 Method Used
冷熱衝擊 Thermal Shock	Inductance change within ± 5% Without mechanical damage	-55°C, (30 mins) -> room temp. (5 mins) -> 125°C, (30 mins) -> room temp. (5 mins) 100 cycles
耐熱性 Heat Resistance	Inductance change within ± 5% Without mechanical damage	Apply IDC current @ 85°C ambient Duration: 1000 hrs
耐濕性 Humidity Resistance	Inductance change within ± 5% Without mechanical damage	Apply IDC current @ 60°C ambient Humidity: 90~95% Duration: 1000 hrs
低溫存儲實驗 Low Temp. Storing	Inductance change within ± 5% Without mechanical damage	Storing Temp. -55 ±2 °C for total 1,000 +4/-0 hours
高溫存儲實驗 High Temp. Storing	Inductance change within ± 5% Without mechanical damage	Storing Temp. 125 ±2 °C for total 1,000 +4/-0 hours



產品編碼 P/N	PSTMAA1608~1510 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	扁平线一体成型电感	測試頻率 TEST FREQUENCY	1608~0403: 1MHZ / 1V 0502~1510: 100KHZ / 0.1V

載帶卷盤尺寸 : (mm)

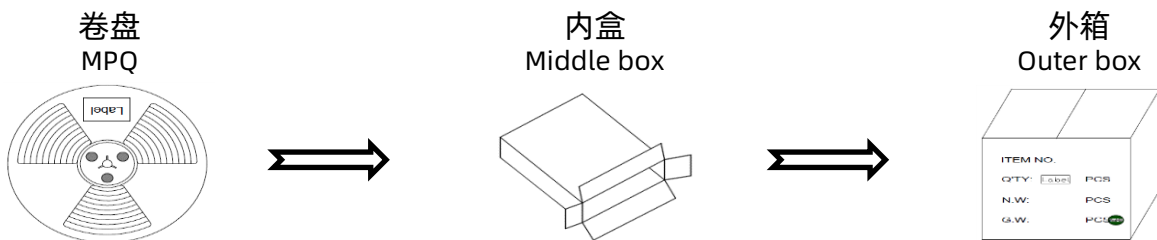
Packing Dimension



系列 Series	A	B	C	W	P	Po	Ao	Bo	Ko
1608	178	58	8.5	8	4	4	1.8 Typ	1.0 Typ	1.1 Typ
2012	178	58	8.5	8	4	4	2.2 Typ	1.4 Typ	1.1 Typ
252010	178	58	8.5	8	4	4	2.6 Typ	2.1 Typ	1.3 Typ
3225	178	58	8.5	8	8	4	3.4 Typ	2.7 Typ	1.7 Typ
0402	330	100	12	12	8	4	4.6 Typ	4.75 Typ	2.2 Typ
0403	330	100	12	12	8	4	4.6 Typ	4.75 Typ	3.2 Typ
0502	330	100	12.5	12	8	4	5.7 Typ	5.9 Typ	2.3 Typ
0503	330	100	12.5	12	8	4	5.7 Typ	5.9 Typ	3.6 Typ
0505	330	100	12.5	12	8	4	5.7 Typ	5.9 Typ	5.6 Typ
0603	330	100	16.5	16	12	4	6.9 Typ	6.9 Typ	3.4 Typ
0605	330	100	16.5	16	12	4	6.9 Typ	6.9 Typ	5.2 Typ
0606	330	100	16.5	16	12	4	6.9 Typ	6.9 Typ	6.2 Typ
0703	330	100	16.5	16	12	4	8.0 Typ	7.8 Typ	3.2 Typ
0707	330	100	16.5	16	12	4	8.0 Typ	7.8 Typ	7.3 Typ
1030	330	100	24.5	24	16	4	11.5 Typ	12.4 Typ	3.3 Typ
1060	330	100	24.5	24	16	4	11.5 Typ	12.4 Typ	6.3 Typ
1010	330	100	24.5	24	16	4	11.5 Typ	12.4 Typ	10.3 Typ
1510	330	100	32.5	32	24	4	17 Typ	16 Typ	10.5 Typ

裝箱數量:

Package Quantity



系列 Series	卷盤 MPQ	內盒 Middle box	外箱 Outer box
1608/2012	4000pcs	20000pcs	100000pcs
252010/3225	3000pcs	15000pcs	75000pcs
0402/0403	2000pcs	8000pcs	24000pcs
0502/0503	2000pcs	8000pcs	24000pcs
0505/0703	1500pcs	3000pcs	9000pcs
0603/0605/1030	1000pcs	3000pcs	9000pcs
0606/0707	700pcs	2100pcs	6300pcs
1060	500pcs	1000pcs	3000pcs
1010	300pcs	600pcs	1800pcs
1510	150pcs	300pcs	900pcs





注意事項

使用本產品時，請注意以下事項

- ◎ 產品保存期限為12個月，保存條件：溫度5~40℃，濕度10~75%RH以內，超過保存期限可能會使產品端子電極發生氧化。
- ◎ 請勿在極端環境下使用和保存（高鹽，強酸，強鹼，強輻射等）。
- ◎ 產品焊接前，請進行預熱；預熱溫度與焊接溫度之間溫差建議控制在150℃以內。
- ◎ 產品焊接後需重新拆卸焊接修正時，請遵循規格書規定的條件範圍；過高的加熱溫度以及反復的拆卸可能會導致產品失效。
- ◎ 產品請勿接觸清洗劑，酒精等液體，這會侵蝕產品本體，從而導致產品失效。
- ◎ 產品焊接到線路板後，請注意不可因線路板整體變形或局部變形而施加給電感剩餘應力，這可能會導致電感發生破裂，脫落，以致失效。
- ◎ 產品通電後溫度會隨電流的增大而上升，設計時請務必考慮留有餘量。
- ◎ 過高的靜電會對產品產生永久性損害，請注意靜電防護。
- ◎ 產品通電過程請勿觸摸產品任何部位，防止觸電。
- ◎ 本產品作為磁性產品，設計時請務必考慮周邊元器件與本產品可能產生的相互影響。
- ◎ 本產品適用於一般電子設備，如：AV設備，通信設備，家電產品，娛樂設備，電腦設備，個人設備，辦公設備，計測設備，工業機器人等。且該一般電子設備需在常規的操作和使用方法環境下使用。對於需要高度安全性和可靠性的，或者因本產品失效造成設備故障，誤操作，運轉不良等危及到人的生命身體及財產安全，以及對社會產生較大不良影響的特殊用途，設計使用前務必同本公司溝通，設計使用者如未取得我司書面同意狀況下使用造成任何後果，我司不予承擔。特殊用途包含但不限定如下清單：
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 - 5 核動力相關設備
 - 6 爆炸引燃控制設備
 - 7 交通控制設備
 - 8 關係到國防安全的設備
 - 9 其他被認定為特殊用途的設備





ANNOUNCEMENTS

Please read this before using the product.

- © The product storage life is 12 months, Storage Temperature: TEMP.5~40°C; RH10%~75%. Please use the product within the warranty period
- © Do not use or store in locations where there are conditions such as gas corrosion (salt, acid, alkali, radiation etc.) .
- © Before soldering, be sure to preheat components:The preheating temperature should be set so that The temperature difference between the solder temperature and chip temperature does not exceed 150° C.
- © Soldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur. Repeated disassembly may invalidate the inductance
- © The cleaning agent can not be used for these products. This may corrode the inductor
- © When embedding a printed circuit board where a chip is mounted to a set, be sure that residual stress is not given to the chip due to the overall distortion of the printed circuit board and partial distortion such as at screw tightening portions.
- © Self heating (Rated Current or Irms) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- © Too high static electricity will cause permanent damage to the product, please pay attention to electrostatic protection.
- © As a magnetic product, the design must consider the possible interaction between peripheral components and the product.
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