



產品編碼 P/N	PSTMAA1608~4030 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	1MHZ / 1V

客戶名稱
Customer

客戶編碼
Customer P/N

產品系列
Series

扁平线一体成型电感
SMD T-CORE Molding power Inductor

產品編碼
Supply P/N

PSTMAA1608~4030 Series

發版號
Version

A3.0

承認日期
Endorsement Date

2025/2/23

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



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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

P S T M A A	2 5 2 0 1 0	-	XXX	M	B
类别码	尺寸系列		系列码	公差	颜色
Category code	Dimension		Inductance	Tolerance	Color

- ◎ 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 °C to +125 °C
- ◎ 加載溫升電流（Irms）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 Irms 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 Lo 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
The rated current shall refer to the minimum ISAT and IRMS 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17頁注意事項
The announcements is on page 18

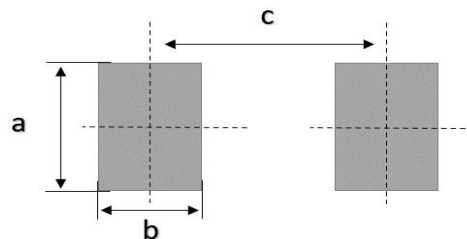
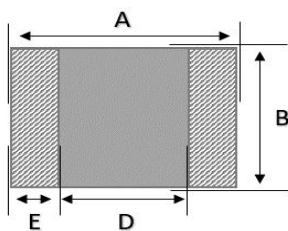


產品編碼 P/N	PSTMAA1608~4030 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	扁平线一体成型电感	測試頻率 TEST FREQUENCY	1MHZ / 1V

封裝尺寸

Dimension

(mm)



系列	封裝尺寸 Dimension					焊盤尺寸 Land Pattern		
Series	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

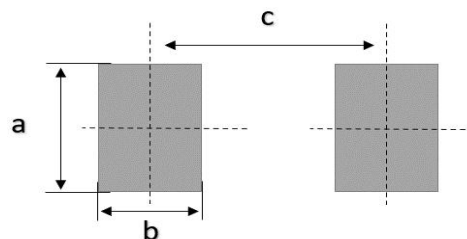
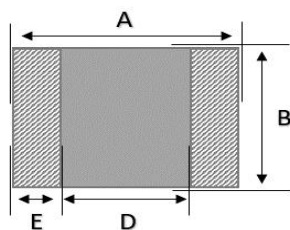
產品編碼 P/N	@ 25 °C Ambient Temperture					
	感值	公差	DCR		溫升電流 (IRMS)	飽和電流 (ISAT)
	Inductance	Tolerance	mΩ		A	A
	μH @1MHZ	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSTMAA100506-1R0MB	1.00	20%	280	320	1	1.1
PSTMAA100765-1R5MB	1.50	20%	400	500	0.4	1.1
PSTMAA100765-2R6MG	2.60	20%	750	900	0.55	1
PSTMAA160865-R22MG	0.22	20%	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	3.4	5.5
PSTMAA160808-R24MB	0.24	20%	20	24	5.5	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	2.1	3.3
PSTMAA160808-1R0MG	1.0	20%	105	115	2.1	2.3
PSTMAA160808-1R5MB	1.5	20%	240	285	1.7	2.4
PSTMAA160808-2R2MG	2.2	20%	220	260	1.4	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	0.5	0.8



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產品系列 Series	扁平线一体成型电感	測試頻率 TEST FREQUENCY	1MHZ / 1V

封裝尺寸

Dimension



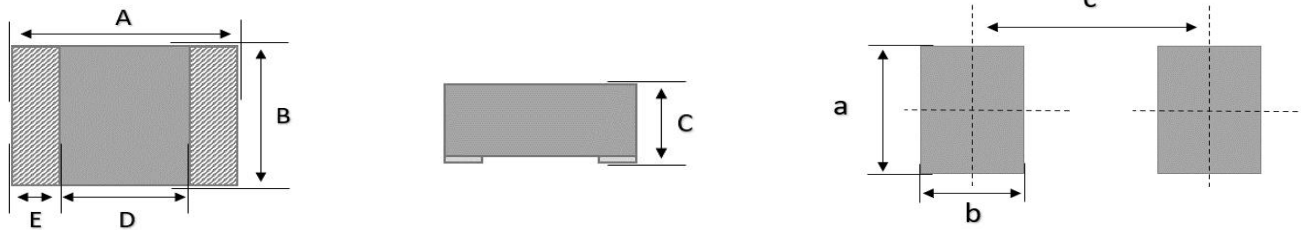
系列	封裝尺寸 Dimension					焊盤尺寸 Land Pattern		
Series	A	B	C	D	E	a	b	c
141265	1.4±0.2	1.2±0.2	0.65Max.	0.5 Typ	0.45±0.2	1.3	0.65	1.05
141208	1.4±0.2	1.2±0.2	0.80Max.	0.5 Typ	0.45±0.2	1.3	0.65	1.05
201665	2.0±0.2	1.2±0.2	0.65Max.	0.6 Typ	0.70±0.2	1.3	0.8	1.3
201208	2.0±0.2	1.2±0.2	0.80Max.	0.6 Typ	0.70±0.2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

1412~201208 Series

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%
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-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-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

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封裝尺寸
Dimension (mm)



系列	封裝尺寸 Dimension					焊盤尺寸 Land Pattern		
Series	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

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℃	L0 drop≈30%
PSTMAA201210-R10MB	0.1	20%	8	13	7.5	8.5
PSTMAA201210-R11MB	0.1	20%	7	8.5	10	14
PSTMAA201210-R22MB	0.2	20%	16	22	7.1	7.3
PSTMAA201210-R24MG	0.24	20%	11.5	14	9	7.3
PSTMAA201210-R33MG	0.33	20%	14	16	5.7	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	4.3	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

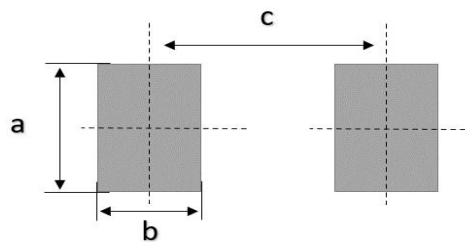
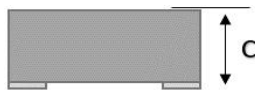
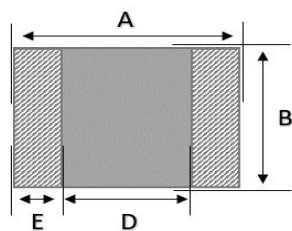


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產品系列 Series	扁平线一体成型电感	測試頻率 TEST FREQUENCY	1MHZ / 1V

封裝尺寸

Dimension

(mm)



系列	封裝尺寸 Dimension					焊盤尺寸 Land Pattern		
Series	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

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℃	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	6.8	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	5.5	7.5
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

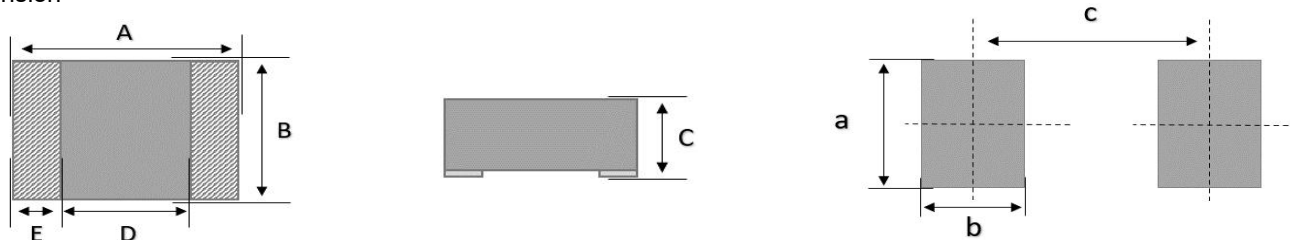


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產品系列 Series	扁平线一体成型电感	測試頻率 TEST FREQUENCY	1MHZ / 1V

封裝尺寸

Dimension

(mm)



系列	封裝尺寸 Dimension					焊盤尺寸 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

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%
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

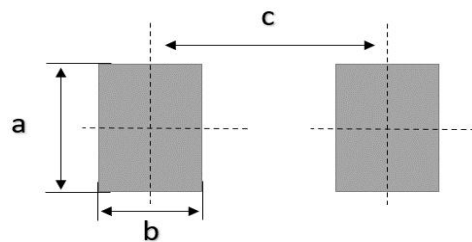
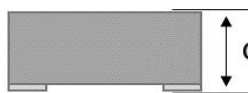
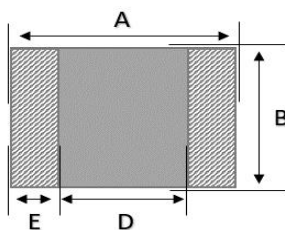


產品編碼 P/N	PSTMAA1608~4030 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	扁平线一体成型电感	測試頻率 TEST FREQUENCY	1MHZ / 1V

封裝尺寸

(mm)

Dimension



系列	封裝尺寸 Dimension					焊盤尺寸 Land Pattern		
Series	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

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 @1MHZ	±	Typ	Max	ΔT≈40℃	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

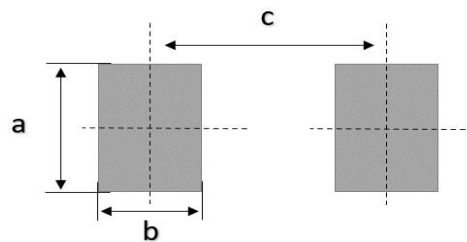
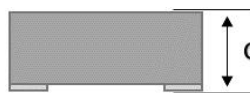
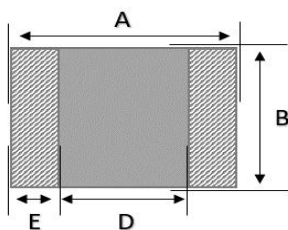


產品編碼 P/N	PSTMAA1608~4030 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	扁平线一体成型电感	測試頻率 TEST FREQUENCY	1MHZ / 1V

封裝尺寸

Dimension

(mm)



系列	封裝尺寸 Dimension					焊盤尺寸 Land Pattern		
Series	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

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%
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

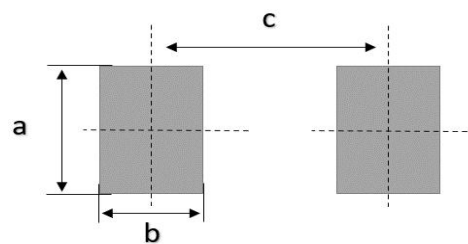
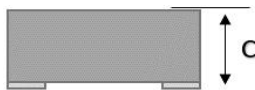
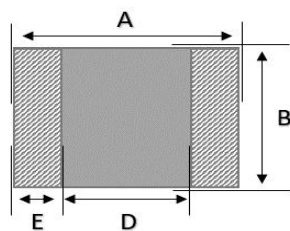


產品編碼 P/N	PSTMAA1608~4030 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	扁平线一体成型电感	測試頻率 TEST FREQUENCY	1MHZ / 1V

封裝尺寸

Dimension

(mm)



系列	封裝尺寸 Dimension					焊盤尺寸 Land Pattern		
Series	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

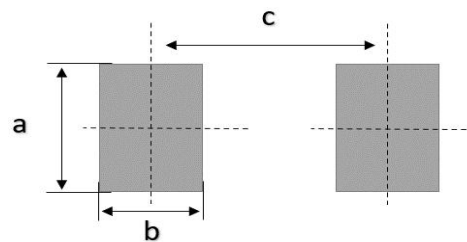
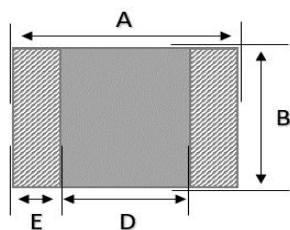
產品編碼 P/N	@ 25 °C Ambient Temperature					
	感值	公差	DCR		溫升電流 (IRMS)	飽和電流 (ISAT)
	Inductance	Tolerance	mΩ		A	A
	μH @1MHZ	±	Typ	Max	ΔT≈40℃	L0 drop≈30%
PSTMAA3010-1R0MB	1	20%	25	30	7	6
PSTMAA3010-2R2MB	2.2	20%	55	66	5	4
PSTMAA3010-4R7MB	4.7	20%	120	140	3.2	2.7
PSTMAA3010-6R8MB	6.8	20%	225	270	2.1	1.8
PSTMAA3010-100MB	10	20%	250	275	2.2	1.8
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
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



產品編碼 P/N	PSTMAA1608~4030 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	1MHZ / 1V

封裝尺寸

Dimension



系列	封裝尺寸 Dimension					焊盤尺寸 Land Pattern		
Series	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

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 @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
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
PSTMAA4010-1R0MB	1.0	20%	22	26	7	5.3
PSTMAA4010-100MB	10	20%	220	280	2.5	2.2

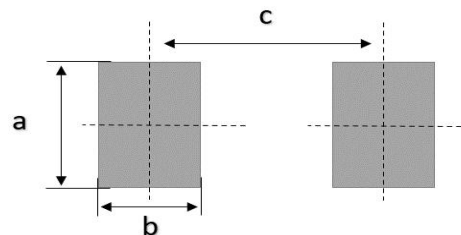
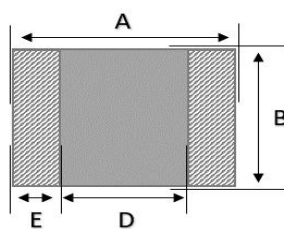


產品編碼 P/N	PSTMAA1608~4030 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	扁平线一体成型电感	測試頻率 TEST FREQUENCY	1MHZ / 1V

封裝尺寸

Dimension

(mm)



系列	封裝尺寸 Dimension					焊盤尺寸 Land Pattern		
Series	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

@ 25 °C Ambient Temperature

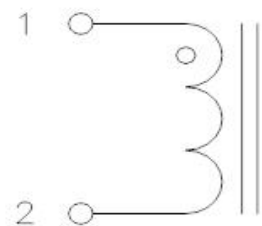
產品編碼 P/N	感值	公差	DCR		溫升電流 (IRMS)	飽和電流 (ISAT)
	Inductance	Tolerance	mΩ		A	A
	μH @1MHZ	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSTMAA4012-R47MB	0.47	20%	11.5	14	9	12
PSTMAA4012-R68MB	0.68	20%	15	18	8.5	10
PSTMAA4012-1R0MB	1.0	20%	21	25	6.3	11
PSTMAA4012-1R5MB	1.5	20%	29	34.5	6	8
PSTMAA4012-2R2MB	2.2	20%	45	55	5	6.5
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
PSTMAA4030-4R7MG	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



產品編碼 P/N	PSTMAA1608~4030 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	1MHZ / 1V

電路結構

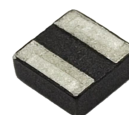
Connections



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

实物图示

Picture



- ◎ 0430以下尺寸顶部不喷码印字
Size 1005~0410 series no marking

产品结构

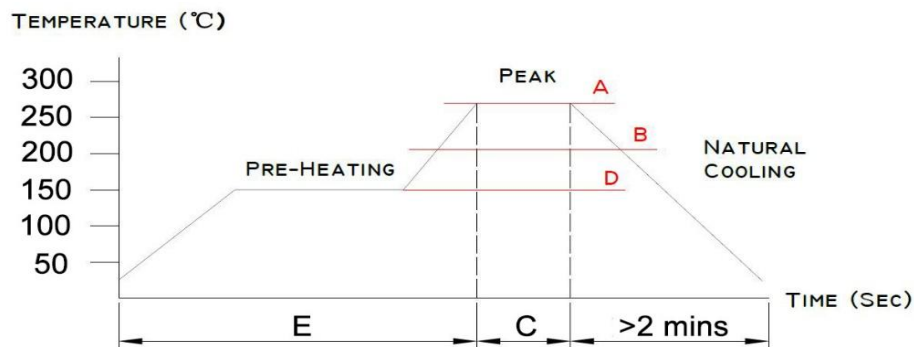
Product Structure



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

焊接溫度 (推荐)

Recommended Soldering Temperature Graph



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



產品編碼 P/N	PSTMAA1608~4030 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	1MHZ / 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℃ 90 seconds Soldering: 255 ±5℃ for 3 ±1 sec
機械衝擊 Shock	Inductance change within ± 5% Without mechanical damage SMD Molding Indu	Drop down with 981m/s2 (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

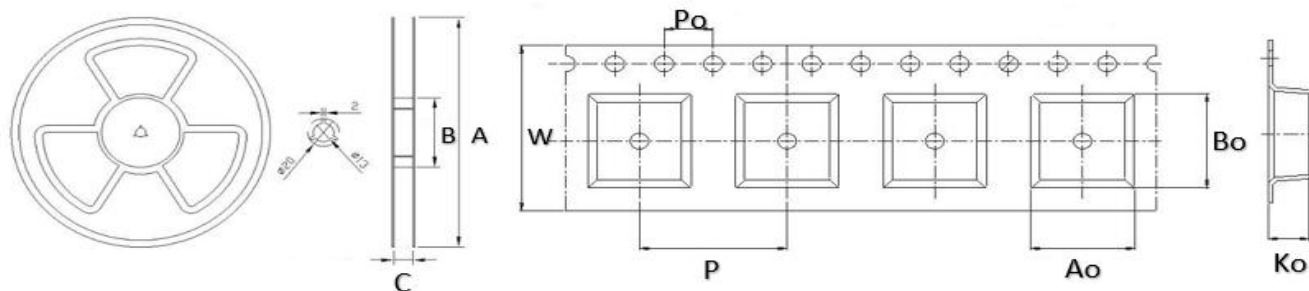
Aging Reliability

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℃, (30 mins) -> room temp. (5 mins) -> 125℃, (30 mins) -> room temp. (5 mins) 100 cycles
耐熱性 Heat Resistance	Inductance change within ± 5% Without mechanical damage	Apply IDC current @ 85℃ ambient Duration: 1000 hrs
耐濕性 Humidity Resistance	Inductance change within ± 5% Without mechanical damage	Apply IDC current @ 60℃ 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 ℃ 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 ℃ for total 1,000 +4/-0 hours

產品編碼 P/N	PSTMAA1608~4030 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	1MHZ / 1V

載帶卷盤尺寸 : (mm)

Packing Dimension



系列 Series	最小包裝 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，設計使用者如在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：

- | | |
|-----------------------|-----------------|
| 1 軍用設備 | 8 關係到國防安全的設備 |
| 2 運輸設備（汽車，軌道交通產品，船舶等） | 9 其他被認定為特殊用途的設備 |
| 3 航空，航太設備 | |
| 4 發電控制設備 | |
| 5 核動力相關設備 | |
| 6 爆炸引燃控制設備 | |
| 7 交通控制設備 | |

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Please read this before using the product.

- © The product storage life is 12 months, Storage Temperature: TEMP.5~40℃; 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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3 Aerospace/aviation equipment

4 Power-generation control equipment

5 Atomic energy-related equipment

6 Explosive ignition control equipment

7 Transportation control equipment

