

產品編碼 P/N	PSPMAA201610~2213 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	一体成型电感	測試頻率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0302~2213: 100KHZ / 1V

客戶名稱  
Customer

:

客戶編碼  
Customer P/N

:

產品系列  
Series

:

一体成型电感  
SMD Molding power Inductor

產品編碼  
Supply P/N

:

PSPMAA201610~2213 Series

發版號  
Version

:

A3.0

承認日期  
Endorsement Date

:

2022-11-18

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	<b>PSPMAA201610~2213 Series</b>	測試設備 TEST INSTRUMENT	<b>Chroma 3302 16502</b>
產品系列 Series	<b>一体成型电感</b>	測試頻率 TEST FREQUENCY	<b>201610~252012: 1MHZ / 1V 0302~2213: 100KHZ / 1V</b>

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  
深圳市寶安區石岩三聯工業區B棟311

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下载或者扫描二维码通过微信小程序  
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<https://www.prodtech.cn/>

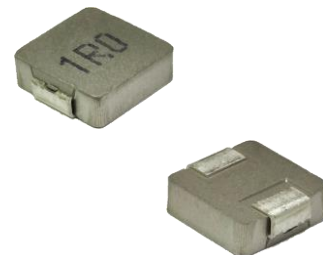


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## 产品特点

## Features

- ☐ 更低的直流阻抗 (DCR) , 更高的额定电流  
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

<b>PSPMAA</b>	<b>1040</b>	-	<b>4R7</b>	-	<b>M</b>	-	<b>ANP</b>
类别码	尺寸系列		系列码		公差		标识码
Category code	Dimension		Inductance		Tolerance		Other's code

- ◎ 规格参数基於环境温度25℃取得  
All test Data is referenced to 25℃ ambient
- ◎ 电感工作环境温度：-40℃ ~ 125℃  
Operating temperature range -40 °C to +125 °C
- ◎ 加载温升电流 (Irms) 會使电感温度上升大約 40℃ (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℃
- ◎ 加载饱和电流 (ISAT) 會使感量下降大約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  
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，电感最终温度不得超過125℃  
The operating temperature of inductance do not exceed 125℃
- ◎ 使用電感時，請查閱第25頁注意事項  
The announcements is on page 26



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### 封裝尺寸 (mm)



系列	封裝尺寸 Dimension					焊盤尺寸 Land Pattern		
	L	W	T	D	E	a	b	c
201610	2.0±0.2	1.6±0.2	1.0MAX	*	0.5±0.3	1.6Typ	0.55Typ	1.45Typ
252010	2.5±0.2	2.0±0.2	1.0MAX	*	0.6±0.3	2.0Typ	0.8Typ	2.0Typ
252012	2.5±0.2	2.0±0.2	1.2MAX	*	0.6±0.3	2.0Typ	0.8Typ	2.0Typ

### 201610~252012 Series

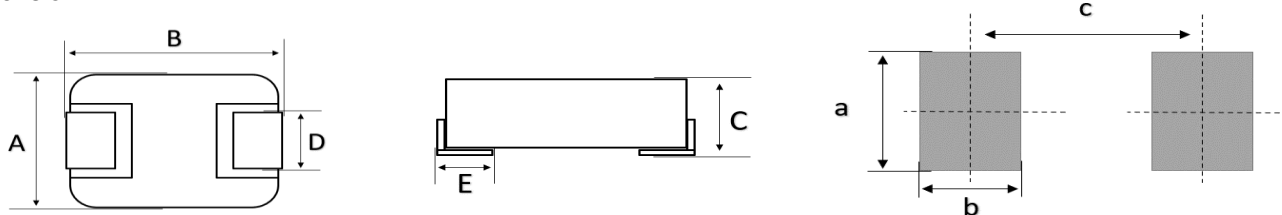
產品編碼 P/N	@ 25 °C Ambient Temperture					
	感值	公差	DCR		溫升電流 (IRMS)	飽和電流 (ISAT)
	Inductance	Tolerance	mΩ		A	A
	μH	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSPMAA201610-R24M-AU	0.24	20%	17	21	5.0	5.6
PSPMAA201610-R33M-AU	0.33	20%	24	29	4.1	5.0
PSPMAA201610-R47M-AU	0.47	20%	33	40	3.5	4.4
PSPMAA201610-R68M-AU	0.68	20%	41	49	3.4	3.7
PSPMAA201610-1R0M-AU	1.00	20%	60	69	2.6	2.9
PSPMAA201610-1R5M-AU	1.50	20%	114	129	2.0	2.5
PSPMAA201610-2R2M-AU	2.20	20%	135	150	1.7	1.9
PSPMAA201610-4R7M-AU	4.70	20%	200	220	1.4	1.8
<hr/>						
PSPMAA252010-R22M-AU	0.22	20%	9	12.5	5.9	7.9
PSPMAA252010-R33M-AU	0.33	20%	21	26	4.4	6.6
PSPMAA252010-R47M-AU	0.47	20%	27	32	3.9	5.0
PSPMAA252010-R68M-AU	0.68	20%	37	44	3.4	4.3
PSPMAA252010-1R0M-AU	1.00	20%	45	54	3.0	3.5
PSPMAA252010-1R5M-AU	1.50	20%	76	91	2.5	2.6
PSPMAA252010-2R2M-AU	2.20	20%	99	119	2.3	2.4
PSPMAA252010-4R7M-AU	4.70	20%	220	262	1.4	1.8
<hr/>						
PSPMAA252012-R68M-AU	0.68	20%	29	35	3.7	5.0
PSPMAA252012-1R0M-AU	1.00	20%	41	49	3.5	4.4
PSPMAA252012-1R5M-AU	1.50	20%	64	77	2.5	3.2
PSPMAA252012-2R2M-AU	2.20	20%	85	98	2.3	3.0
PSPMAA252012-4R7M-AU	4.70	20%	196	235	1.6	1.9



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### 封裝尺寸 (mm)

Dimension



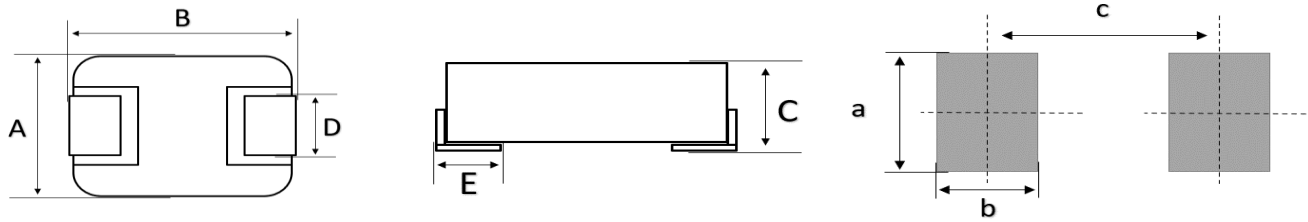
系列 Series	封裝尺寸 Dimension					焊盤尺寸 Land Pattern		
	A	B	C	D	E	a	b	c
0302	3.2±0.3	3.4±0.3	2.0 Max	1.2±0.3	0.7±0.3	1.8Typ	1.1Typ	1.9Typ
0410	4.1±0.20	4.1±0.20	1.0MAX	1.8±0.2	0.8±0.5	2.2Typ	1.1Typ	3.3Typ
0412	4.2±0.3	4.5±0.3	1.2MAX	2.0±0.5	0.8±0.5	2.3Typ	1.4Typ	3.55Typ

### 0302~0412 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%
PSPMAA0302-R33M-ANP	0.33	20%	18	21	8.0	10.0
PSPMAA0302-R47M-ANP	0.47	20%	19	23	7.0	9.0
PSPMAA0302-R68M-ANP	0.68	20%	25	29	5.5	7.0
PSPMAA0302-1R0M-ANP	1.0	20%	32	38	4.0	5.0
PSPMAA0302-1R5M-ANP	1.5	20%	45	50	3.8	4.0
PSPMAA0302-2R2M-ANP	2.2	20%	67	75	3.5	3.7
PSPMAA0302-3R3M-ANP	3.3	20%	130	145	3.0	3.5
PSPMAA0302-4R7M-ANP	4.7	20%	184	200	2.0	3.0
<hr/>						
PSPMAA0410-2R2M-ANP	2.2	20%	90	100	3.4	4.3
PSPMAA0410-4R7M-ANP	4.7	20%	144	160	2.6	2.5
PSPMAA0410-100M-ANP	10	20%	302	336	1.5	1.8
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PSPMAA0412-R15M-ANP	0.15	20%	7	9	7.5	15
PSPMAA0412-R22M-ANP	0.22	20%	9	11	7	11
PSPMAA0412-R33M-ANP	0.33	20%	17	19	6.5	8.4
PSPMAA0412-R47M-ANP	0.47	20%	19	21	6	6.8
PSPMAA0412-R68M-ANP	0.68	20%	32	36	4.7	6
PSPMAA0412-1R0M-ANP	1.0	20%	43	70	4.5	5.5
PSPMAA0412-1R5M-ANP	1.5	20%	68	75	3.3	4
PSPMAA0412-2R2M-ANP	2.2	20%	79	83.5	2.8	3.5
PSPMAA0412-4R7M-ANP	4.7	20%	170	195	1.8	2.5

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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
0402	4.1±0.3	4.5±0.3	2.0MAX	2.0±0.5	0.8±0.5	2.3Typ	1.4Typ	3.55Typ

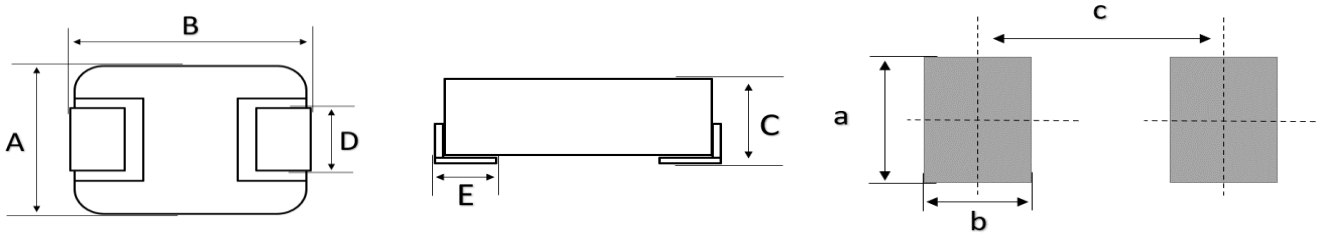
## 0402 Series

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%
PSPMAA0402-R10M-ANP	0.1	20%	3.5	4	12	22
PSPMAA0402-R22M-ANP	0.22	20%	6	6.6	9	12.5
PSPMAA0402-R33M-ANP	0.33	20%	9.6	13	8	12
PSPMAA0402-R47M-ANP	0.47	20%	12.5	14	7	9.5
PSPMAA0402-R56M-ANP	0.56	20%	14	16	6.5	10
PSPMAA0402-R68M-ANP	0.7	20%	16	18	6	9
PSPMAA0402-1R0M-ANP	1.0	20%	24	27	4.5	7
PSPMAA0402-1R2M-ANP	1.2	20%	24	27	4.5	7
PSPMAA0402-1R5M-ANP	1.5	20%	38	46	4	6
PSPMAA0402-2R2M-ANP	2.2	20%	52	58	3	5
PSPMAA0402-3R3M-ANP	3.3	20%	74	87	3	4
PSPMAA0402-4R7M-ANP	4.7	20%	98	110	2.5	3.5
PSPMAA0402-6R8M-ANP	6.8	20%	160	175	2.5	3.5
PSPMAA0402-8R2M-ANP	8.2	20%	170	185	2	3
PSPMAA0402-100M-ANP	10.0	20%	224	250	2	3
PSPMAA0402-150M-ANP	15	20%	325	360	1.5	2
PSPMAA0402-220M-ANP	22.0	20%	360	400	1.5	2



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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
0518	5.2±0.3	5.4±0.3	1.8MAX	2.2±0.3	1.2±0.3	2.5Typ	1.8Typ	4Typ

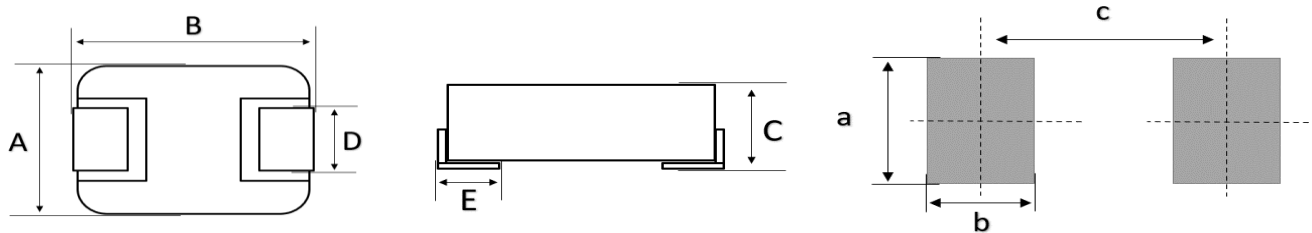
## 0518 Series

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%
PSPMAA0518-R33M-ANP	0.33	20%	7.7	8.6	11	15
PSPMAA0518-R47M-ANP	0.47	20%	10	11.3	10	14
PSPMAA0518-R56M-ANP	0.56	20%	11	13	9.5	13.5
PSPMAA0518-R68M-ANP	0.68	20%	12	14.3	9	13
PSPMAA0518-1R0M-ANP	1	20%	15	25	6.8	10
PSPMAA0518-1R5M-ANP	1.5	20%	23	28	6	9
PSPMAA0518-2R2M-ANP	2.2	20%	30	35	4.5	7
PSPMAA0518-3R3M-ANP	3.3	20%	45	52	4.5	5.5
PSPMAA0518-4R7M-ANP	4.7	20%	70	81	3	4.5
PSPMAA0518-5R6M-ANP	5.6	20%	114	127	2.5	4
PSPMAA0518-6R8M-ANP	6.8	20%	123	137	2.4	3.5
PSPMAA0518-8R2M-ANP	8.2	20%	148	165	2.5	3
PSPMAA0518-100M-ANP	10.0	20%	171	190	2.3	2.8



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封裝尺寸  
Dimension (mm)



系列	封裝尺寸 Dimension					焊盤尺寸 Land Pattern		
	A	B	C	D	E	a	b	c
0502	5.2±0.3	5.4±0.3	2.0MAX	2.2±0.3	1.2±0.3	2.5Typ	1.8Typ	4Typ

0502 Series

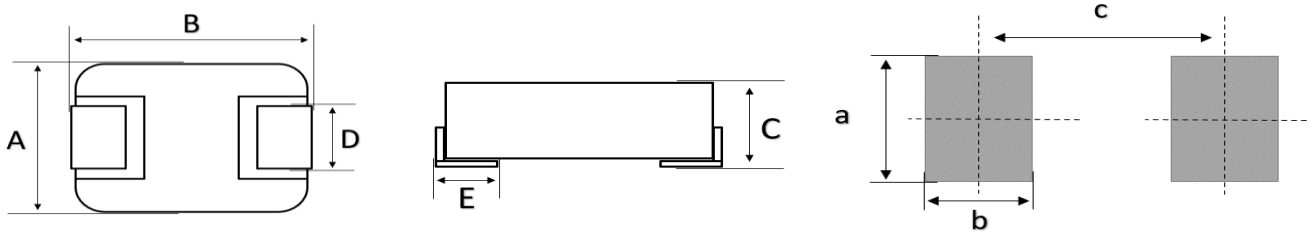
產品編碼 P/N	@ 25 °C Ambient Temperature					
	感值 Inductance	公差 Tolerance	DCR		溫升電流 (IRMS)	飽和電流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSPMAA0502-R10M-ANP	0.10	20%	2.1	2.6	15.0	23.0
PSPMAA0502-R22M-ANP	0.22	20%	4.4	5.3	13.0	22.0
PSPMAA0502-R33M-ANP	0.33	20%	6.5	7.3	12.0	21.3
PSPMAA0502-R47M-ANP	0.47	20%	10.5	8.6	11.5	18.0
PSPMAA0502-R68M-ANP	0.68	20%	11.0	12.4	10.0	12.8
PSPMAA0502-1R0M-ANP	1.00	20%	17.0	19.2	7.0	11.7
PSPMAA0502-1R2M-ANP	1.20	20%	25.0	28.0	6.2	11.0
PSPMAA0502-2R2M-ANP	2.20	20%	42.0	50.0	4.2	9.0
PSPMAA0502-3R3M-ANP	3.30	20%	58.0	70.0	3.3	7.3
PSPMAA0502-4R7M-ANP	4.70	20%	90.0	106.0	2.8	5.0
PSPMAA0502-5R6M-ANP	5.60	20%	103.0	122.0	2.5	4.2
PSPMAA0502-6R8M-ANP	6.80	20%	114.0	145.0	2.4	3.8
PSPMAA0502-8R2M-ANP	8.20	20%	134.0	168.0	2.3	3.5
PSPMAA0502-100M-ANP	10.00	20%	151.0	189.0	2.3	3.4





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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
0503	5.2±0.3	5.4±0.3	3.0MAX	2.2±0.3	1.2±0.3	2.5Typ	1.8Typ	4Typ

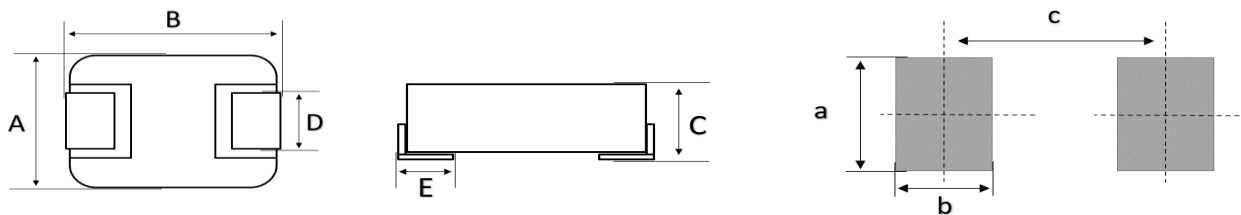
## 0503 Series

產品編碼 P/N	@ 25 °C Ambient Temperture					
	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%
PSPMAA0503-R33M-ANP	0.33	20%	4.2	5.0	14.0	18.0
PSPMAA0503-R47M-ANP	0.47	20%	7.4	7.4	12.0	16.0
PSPMAA0503-R68M-ANP	0.68	20%	11.0	13.0	8.0	14.0
PSPMAA0503-1R0M-ANP	1.00	20%	13.0	15.0	7.0	11.0
PSPMAA0503-1R5M-ANP	1.50	20%	20.0	25.0	6.0	8.5
PSPMAA0503-2R2M-ANP	2.20	20%	25.0	35.0	5.5	7.5
PSPMAA0503-3R3M-ANP	3.30	20%	32.0	38.0	5.0	6.0
PSPMAA0503-4R7M-ANP	4.70	20%	50.0	70.0	4.0	5.0
PSPMAA0503-6R8M-ANP	6.80	20%	75.0	100.0	3.5	4.0
PSPMAA0503-8R2M-ANP	8.20	20%	100.0	130.0	3.0	4.0
PSPMAA0503-100M-ANP	10.00	20%	110.0	145.0	2.5	3.5
PSPMAA0503-150M-ANP	15.00	20%	192.0	215.0	2.0	3.0
PSPMAA0503-220M-ANP	22.00	20%	230.0	275.0	1.5	2.5
PSPMAA0503-330M-ANP	33.00	20%	325.0	360.0	1.0	2.0



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### 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
0610	6.1±0.3	6.1±0.3	1.0MAX	1.75±0.3	4.0±0.3	4.5Typ	2.3Typ	5.1Typ
0618	6.6±0.3	7.1±0.3	1.8MAX	3.0±0.5	1.6±0.5	3.5Typ	2.1Typ	5.8Typ
0602	6.6±0.3	7.1±0.3	2.0MAX	3.0±0.5	1.6±0.5	3.5Typ	2.1Typ	5.8Typ

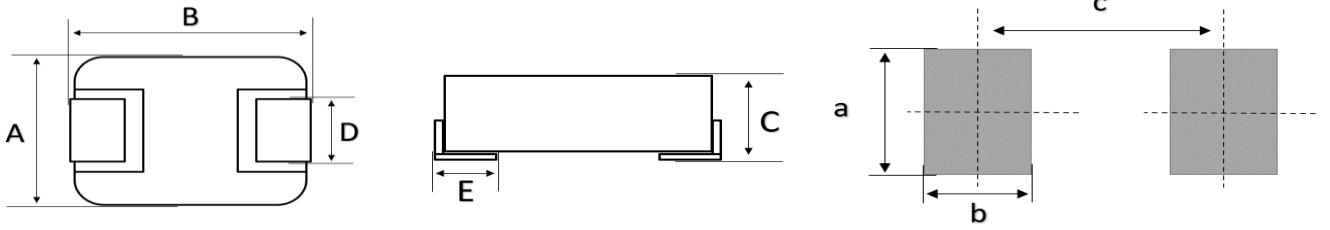
### 0610~0602 Series

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%
PSPMAA0610-4R7M-ANP	4.7	20%	154	172	2.2	2.8
PSPMAA0610-6R8M-ANP	6.8	20%	177	197	2	2.5
PSPMAA0610-100M-ANP	10	20%	549	310	1.6	2.1
PSPMAA0618-R22M-ANP	0.22	20%	5.3	5.7	14.0	26.0
PSPMAA0618-R33M-ANP	0.33	20%	6.6	7.0	12.0	18.0
PSPMAA0618-R47M-ANP	0.47	20%	8.4	9.3	11.0	18.0
PSPMAA0618-R68M-ANP	0.68	20%	12.7	13.9	9.0	17.0
PSPMAA0618-R82M-ANP	0.82	20%	13.8	15.9	8.0	17.0
PSPMAA0618-1R0M-ANP	1.00	20%	17.5	18.3	7.0	14.0
PSPMAA0618-1R5M-ANP	1.50	20%	32.6	34.0	5.5	11.5
PSPMAA0618-2R2M-ANP	2.20	20%	40.3	46.0	4.8	10.0
PSPMAA0618-3R3M-ANP	3.30	20%	44.0	49.0	4.6	6.8
PSPMAA0618-4R7M-ANP	4.70	20%	76.6	78.0	3.0	6.0
PSPMAA0602-R10M-ANP	0.10	20%	2.5	3.5	16.0	30.0
PSPMAA0602-R33M-ANP	0.33	20%	5.6	6.8	13.0	24.0
PSPMAA0602-R47M-ANP	0.47	20%	6.4	8.0	10.0	22.0
PSPMAA0602-R68M-ANP	0.68	20%	10.0	12.7	7.5	14.0
PSPMAA0602-1R0M-ANP	1.00	20%	16.0	19.2	7.0	12.0
PSPMAA0602-1R5M-ANP	1.50	20%	26.0	32.0	5.5	10.0
PSPMAA0602-2R2M-ANP	2.20	20%	32.0	36.0	5.0	9.0
PSPMAA0602-3R3M-ANP	3.30	20%	65.0	78.0	4.5	7.0
PSPMAA0602-4R7M-ANP	4.70	20%	73.0	88.0	3.5	5.0
PSPMAA0602-6R8M-ANP	6.80	20%	114.0	140.0	3.0	4.0
PSPMAA0602-100M-ANP	10.00	20%	147.0	180.0	2.0	3.5



產品編碼 P/N	PSPMAA201610~2213 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	一体成型电感	測試頻率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0302~2213: 100KHZ / 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
0624	6.6±0.3	7.1±0.3	2.4MAX	3.0±0.5	1.6±0.5	3.5Typ	2.1Typ	5.8Typ

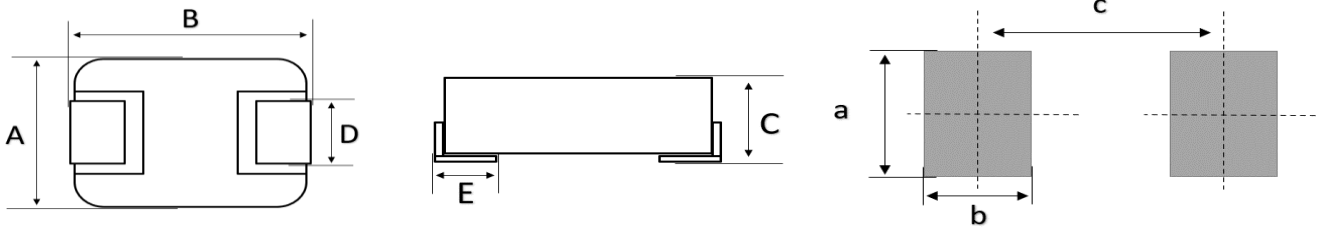
## 0624 Series

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%
PSPMAA0624H-R22M-ANP	0.22	20%	1.7	3.2	12.0	21.0
PSPMAA0624H-R47M-ANP	0.47	20%	4.0	6.5	10.0	18.0
PSPMAA0624H-R68M-ANP	0.68	20%	6.0	9.4	9.0	16.0
PSPMAA0624H-1R0M-ANP	1.00	20%	9.0	12.0	8.0	13.0
PSPMAA0624H-2R2M-ANP	2.20	20%	22.0	34.0	6.0	10.0
PSPMAA0624H-3R3M-ANP	3.30	20%	29.0	35.0	5.0	9.0
PSPMAA0624H-4R7M-ANP	4.70	20%	41.0	50.0	5.0	8.0
PSPMAA0624H-6R8M-ANP	6.80	20%	52.0	72.0	3.0	6.0
PSPMAA0624H-100M-ANP	10.00	20%	82.0	106.0	4.0	5.0
PSPMAA0624H-150M-ANP	15.00	20%	112.0	135.0	3.0	3.5
PSPMAA0624H-220M-ANP	22.00	20%	187.0	200.0	2.5	3.0



產品編碼 P/N	PSPMAA201610~2213 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	一体成型电感	測試頻率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0302~2213: 100KHZ / 1V

封裝尺寸 (mm)  
Dimension



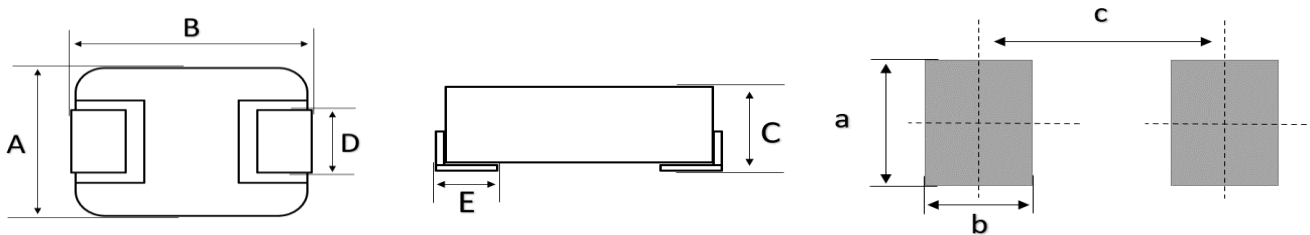
系列 Series	封裝尺寸 Dimension					焊盤尺寸 Land Pattern		
	A	B	C	D	E	a	b	c
0603	6.6±0.3	7.1±0.3	3.0MAX	3.0±0.5	1.6±0.5	3.5Typ	2.1Typ	5.8Typ

## 0603 Series

產品編碼 P/N	@ 25 °C Ambient Temperture					
	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%
PSPMAA0603-R10M-ANF	0.10	20%	1.5	1.7	32.0	60.0
PSPMAA0603-R15M-ANF	0.15	20%	1.9	2.5	26.0	52.0
PSPMAA0603-R22M-ANF	0.22	20%	2.5	2.8	23.0	40.0
PSPMAA0603-R33M-ANF	0.33	20%	3.5	3.9	20.0	30.0
PSPMAA0603-R47M-ANF	0.47	20%	4.0	4.2	17.5	26.0
PSPMAA0603-R68M-ANF	0.68	20%	5.0	5.5	15.5	25.0
PSPMAA0603-R82M-ANF	0.82	20%	6.7	8.0	13.0	24.0
PSPMAA0603-1R0M-ANF	1.00	20%	9.0	10.0	11.0	22.0
PSPMAA0603-1R5M-ANF	1.50	20%	14.0	15.0	9.0	18.0
PSPMAA0603-2R2M-ANF	2.20	20%	18.0	20.0	8.0	14.0
PSPMAA0603-3R3M-ANF	3.30	20%	26.0	30.0	6.0	13.5
PSPMAA0603-4R7M-ANF	4.70	20%	37.0	40.0	5.5	10.0
PSPMAA0603-6R8M-ANF	6.80	20%	54.0	60.0	4.5	8.0
PSPMAA0603-8R2M-ANF	8.20	20%	70.0	90.0	4.0	7.5
PSPMAA0603-100M-ANF	10.00	20%	62.0	68.0	4.5	5.0
PSPMAA0603H-150M-ANF	15.00	20%	112.0	125.0	3.0	4.0
PSPMAA0603H-220M-ANF	22.00	20%	135.0	150.0	3.0	3.5
PSPMAA0603H-330M-ANF	33.00	20%	210.0	250.0	2.0	3.0
PSPMAA0603H-470M-ANF	47.00	20%	324.0	370.0	1.8	3.0
PSPMAA0603H-680M-IGP	68.00	20%	320.0	350.0	1.5	2.2
PSPMAA0603H-101M-ANP	100.00	20%	830.0	870.0	1.2	1.7

產品編碼 P/N	PSPMAA201610~2213 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	一体成型电感	測試頻率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0302~2213: 100KHZ / 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
0604	6.6±0.3	7.1±0.3	4.0MAX	3.0±0.5	1.6±0.5	3.5Typ	2.1Typ	5.8Typ

## 0604 Series

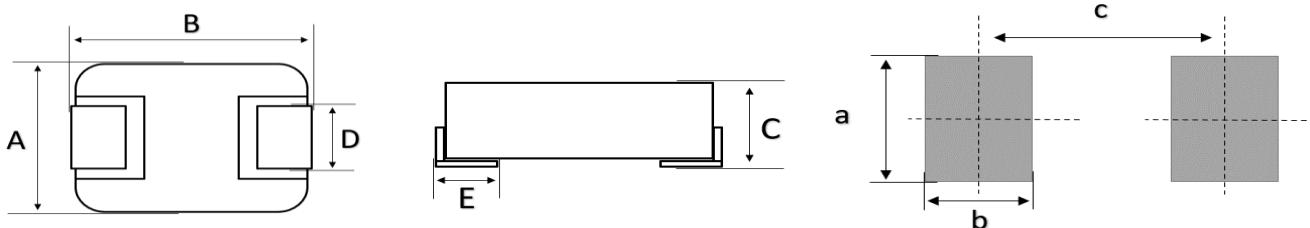
產品編碼 P/N	@ 25 °C Ambient Temperature					
	感值 Inductance	公差 Tolerance	DCR		溫升電流 (IRMS)	飽和電流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSPMAA0604H-R47M-ANP	0.47	20%	3.0	3.6	15.0	26.0
PSPMAA0604H-R68M-ANP	0.68	20%	4.8	5.8	10.0	18.0
PSPMAA0604H-1R0M-ANP	1.00	20%	5.5	6.6	9.0	17.0
PSPMAA0604H-1R5M-ANP	1.50	20%	7.0	10.8	8.0	13.0
PSPMAA0604H-2R2M-ANP	2.20	20%	10.0	13.0	7.0	12.0
PSPMAA0604H-3R3M-ANP	3.30	20%	13.5	18.0	6.5	11.0
PSPMAA0604H-4R7M-ANP	4.70	20%	20.0	24.0	6.0	9.0
PSPMAA0604H-6R8M-ANP	6.80	20%	41.0	49.0	5.0	8.0
PSPMAA0604H-100M-ANP	10.00	20%	58.0	70.0	4.0	6.5
PSPMAA0604H-150M-ANP	15.00	20%	64.0	77.0	3.0	5.5
PSPMAA0604H-220M-ANP	22.00	20%	98.0	117.0	2.5	4.0
PSPMAA0604H-330M-ANP	33.00	20%	163.0	196.0	2.0	3.5



產品編碼 P/N	PSPMAA201610~2213 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	一体成型电感	測試頻率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0302~2213: 100KHZ / 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
0605	6.6±0.3	7.1±0.3	5.0MAX	3.0±0.5	1.6±0.5	3.5Typ	2.1Typ	5.8Typ

### 0605 Series

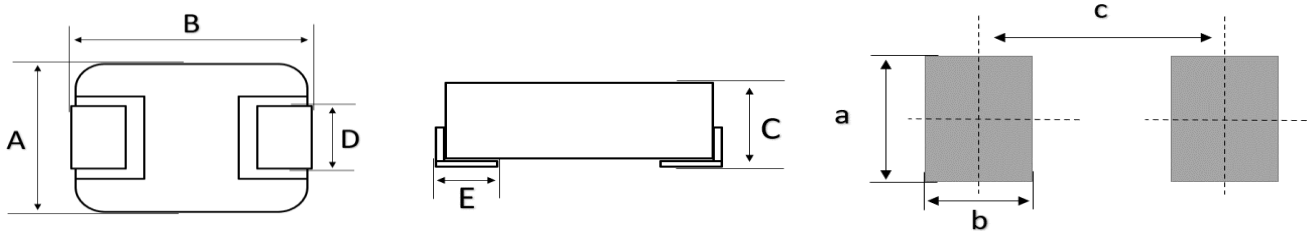
產品編碼 P/N	@ 25 °C Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		溫升電流 (IRMS)	飽和電流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSPMAA0605H-R47M-ANP	0.47	20%	2.9	3.9	21.0	27.0
PSPMAA0605H-R68M-ANP	0.68	20%	3.8	4.4	18.0	26.0
PSPMAA0605H-1R0M-ANP	1.00	20%	5.2	6.7	11.0	18.0
PSPMAA0605H-1R5M-ANP	1.50	20%	7.3	8.7	10.5	17.0
PSPMAA0605H-2R2M-ANP	2.20	20%	10.0	13.5	10.0	15.0
PSPMAA0605H-3R3M-ANP	3.30	20%	14.0	22.9	8.0	13.0
PSPMAA0605H-4R7M-ANP	4.70	20%	18.0	22.0	7.0	12.0
PSPMAA0605H-6R8M-ANP	6.80	20%	26.5	32.0	6.0	10.0
PSPMAA0605H-100M-ANP	10.00	20%	43.0	50.0	4.5	9.0
PSPMAA0605H-150M-ANP	15.00	20%	63.0	80.0	4.0	7.0
PSPMAA0605H-220M-ANP	22.00	20%	110.0	135.0	3.0	5.0
PSPMAA0605H-330M-ANP	33.00	20%	160.0	180.0	2.5	4.0
PSPMAA0605H-470M-ANP	47.00	20%	252.0	295.0	2.0	3.5
PSPMAA0605H-680M-IGF	68.00	20%	232.0	256.0	2.0	2.5
PSPMAA0605H-820M-IGF	82.00	20%	320.0	360.0	1.8	2.0
PSPMAA0605H-101M-IGF	100.00	20%	357.0	400.0	1.7	2.0



產品編碼 P/N	PSPMAA201610~2213 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	一体成型电感	測試頻率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0302~2213: 100KHZ / 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
0803	8.0±0.3	8.5±0.5	3.0MAX	3.0±0.3	1.8 ± 0.5	3.5 Typ	2.4Typ	6.9Typ

### 0803 Series

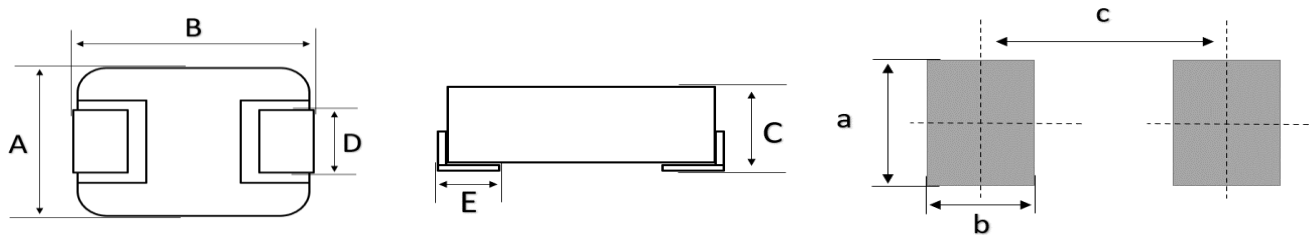
產品編碼 P/N	@ 25 °C Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		溫升電流 (IRMS)	飽和電流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSPMAA0803H-R22M-ANP	0.22	20%	1.68	2.0	28.0	36.0
PSPMAA0803H-R47M-ANP	0.47	20%	2.4	3.0	25.0	32.0
PSPMAA0803H-R68M-ANP	0.68	20%	3.5	4.5	20.0	25.0
PSPMAA0803H-1R0M-ANP	1.00	20%	5.5	6.2	10.0	22.0
PSPMAA0803H-1R5M-ANP	1.50	20%	6	8.0	10.0	14.0
PSPMAA0803H-2R2M-ANP	2.20	20%	10	13.0	8.5	13.0
PSPMAA0803H-3R3M-ANP	3.30	20%	15	17.0	8.0	12.0
PSPMAA0803H-4R7M-ANP	4.70	20%	28	32.0	6.5	11.0
PSPMAA0803H-5R6M-ANP	5.60	20%	33	37.0	5.8	10.0
PSPMAA0803H-6R8M-ANP	6.80	20%	48	53.0	5.2	9.0
PSPMAA0803H-100M-ANP	10.00	20%	54	60.0	5.0	7.0
PSPMAA0803H-150M-ANP	15.00	20%	92	106.0	3.5	6.0
PSPMAA0803H-220M-ANP	22.00	20%	104	130.0	3.0	5.0
PSPMAA0803H-330M-ANP	33.00	20%	156	180.0	2.5	4.0
PSPMAA0803H-470M-ANP	47.00	20%	280	310.0	2.0	3.5



產品編碼 P/N	PSPMAA201610~2213 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	一体成型电感	測試頻率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0302~2213: 100KHZ / 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
0805	8.0±0.3	8.5±0.5	5.0MAX	3.0±0.3	1.8 ± 0.5	3.5 Typ	2.4Typ	6.9Typ

### 0805 Series

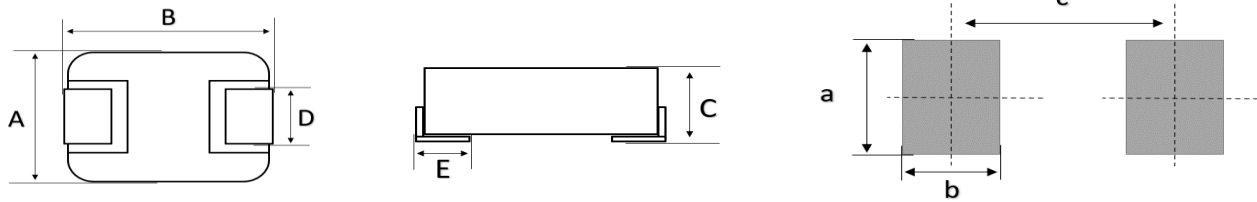
產品編碼 P/N	@ 25 °C Ambient Temperture					
	感值 Inductance	公差 Tolerance	DCR		溫升電流 (IRMS)	飽和電流 (ISAT)
			mΩ		A	A
	μH	±	Typ	Max	ΔT≈40°C	L0 drop≈30%
PSPMAA0805-R22M-ANP	0.22	20%	1.10	1.30	38.0	55.0
PSPMAA0805-R33M-ANP	0.33	20%	1.90	2.20	33.0	53.0
PSPMAA0805-R47M-ANP	0.47	20%	2.00	2.40	28.0	47.0
PSPMAA0805-R68M-ANP	0.68	20%	2.80	3.30	25.0	40.0
PSPMAA0805-R82M-ANP	0.82	20%	3.40	3.80	16.0	26.0
PSPMAA0805-1R0M-ANP	1.00	20%	4.20	5.00	15.0	24.0
PSPMAA0805-1R5M-ANP	1.50	20%	4.80	5.80	14.0	22.0
PSPMAA0805-2R2M-ANP	2.20	20%	8.50	9.50	12.0	20.0
PSPMAA0805-3R3M-ANP	3.30	20%	11.00	13.00	11.0	17.0
PSPMAA0805-4R7M-ANP	4.70	20%	13.50	16.00	9.0	16.0
PSPMAA0805-5R6M-ANP	5.60	20%	17.70	21.00	8.0	14.0
PSPMAA0805-6R8M-ANP	6.80	20%	19.00	24.00	7.0	13.0
PSPMAA0805-100M-ANP	10.00	20%	30.00	35.00	6.0	10.0
PSPMAA0805-150M-ANP	15.00	20%	50.00	55.00	5.0	9.0
PSPMAA0805-220M-ANP	22.00	20%	75.00	83.00	4.0	7.5
PSPMAA0805-330M-ANP	33.00	20%	111.00	125.00	3.5	6.0
PSPMAA0805-470M-ANP	47.00	20%	155.00	172.00	3.0	4.5
PSPMAA0805-560M-ANP	56.00	20%	165.00	185.00	2.5	4.2
PSPMAA0805-680M-ANP	68.00	20%	188.00	230.00	2.2	4.0
PSPMAA0805-101M-ANP	100.00	20%	272.00	300.00	2.0	3.0





產品編碼 P/N	PSPMAA201610~2213 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	一体成型电感	測試頻率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0302~2213: 100KHZ / 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
1030	10.0±0.5	11.0±0.5	3.0MAX	3.0±0.5	2.0±0.5	4.0 Typ	3.5Typ	9.5Typ

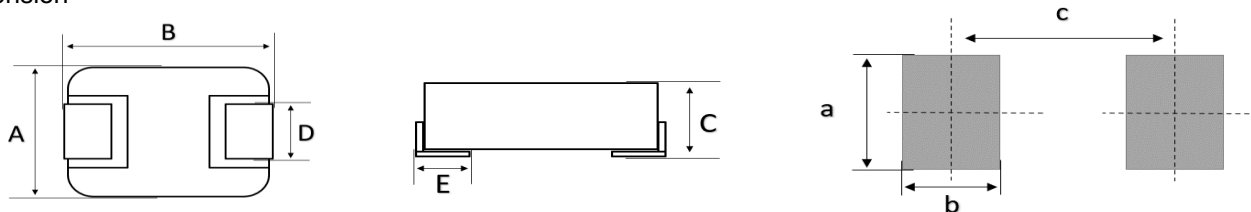
## 1030 Series

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%
PSPMAA1030-R22M-ANP	0.22	20%	0.7	1.0	35.0	55.0
PSPMAA1030-R33M-ANP	0.36	20%	0.7	1.0	33.0	50.0
PSPMAA1030-R47M-ANP	0.47	20%	1.2	1.5	28.0	45.0
PSPMAA1030-R56M-ANP	0.56	20%	1.2	1.5	27.0	40.0
PSPMAA1030-R68M-ANP	0.68	20%	2.0	2.3	25.0	37.0
PSPMAA1030-R82M-ANP	0.82	20%	2.0	2.5	24.0	32.0
PSPMAA1030-1R0M-ANP	1.00	20%	3.0	4.5	18.0	29.0
PSPMAA1030-1R5M-ANP	1.50	20%	4.0	6.0	16.0	24.0
PSPMAA1030-2R2M-ANP	2.20	20%	7.0	9.0	12.0	21.0
PSPMAA1030-3R3M-ANP	3.30	20%	11.0	14.0	10.0	16.0
PSPMAA1030-4R7M-ANP	4.70	20%	14.0	17.0	9.5	14.0
PSPMAA1030-5R6M-ANP	5.60	20%	17.0	21.0	8.5	12.0
PSPMAA1030-6R8M-ANP	6.80	20%	21.0	25.0	8.0	11.0
PSPMAA1030-8R2M-ANP	8.20	20%	23.0	27.0	7.5	10.0
PSPMAA1030-100M-ANP	10.00	20%	30.0	35.0	7.0	9.0
PSPMAA1030-150M-ANP	15.00	20%	42.0	50.0	6.0	8.0
PSPMAA1030-220M-ANP	22.00	20%	50.0	60.0	5.0	9.0
PSPMAA1030-330M-ANP	33.00	20%	75.0	90.0	4.5	7.5
PSPMAA1030-470M-ANP	47.00	20%	120.0	140.0	4.0	6.5
PSPMAA1030-680M-ANP	68.00	20%	180.0	210.0	2.5	4.0
PSPMAA1030-101M-ANP	100.00	20%	320.0	350.0	2.0	3.0



產品編碼 P/N	PSPMAA201610~2213 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	一体成型电感	測試頻率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0302~2213: 100KHZ / 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
1040	10.0±0.5	11.0±0.5	4.0MAX	3.0±0.5	2.0 ± 0.5	4.0 Typ	3.5Typ	9.5Typ
1045	10.0±0.5	11.0±0.5	4.5MAX	3.0±0.5	2.0 ± 0.5	4.0 Typ	3.5Typ	9.5Typ

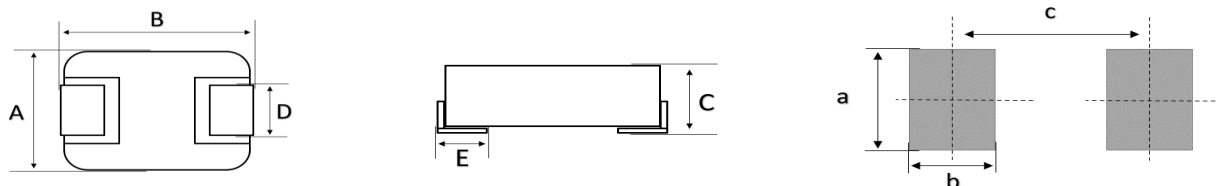
## 1040~1045 Series

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%
PSPMAA1040-R22M-ANP	0.22	20%	0.7	0.9	38.0	62.0
PSPMAA1040-R36M-ANP	0.36	20%	0.7	0.8	33.0	53.0
PSPMAA1040-R47M-ANP	0.47	20%	1.3	1.5	28.0	47.0
PSPMAA1040-R56M-ANP	0.56	20%	1.3	1.5	27.0	43.0
PSPMAA1040-R68M-ANP	0.68	20%	2.0	2.3	25.0	40.0
PSPMAA1040-1R0M-ANP	1.00	20%	2.5	3.0	19.0	32.0
PSPMAA1040-1R5M-ANP	1.50	20%	3.5	4.0	18.0	26.0
PSPMAA1040-2R2M-ANP	2.20	20%	5.9	6.5	14.0	24.0
PSPMAA1040-3R3M-ANP	3.30	20%	9.5	11.0	11.0	18.0
PSPMAA1040-4R7M-ANP	4.70	20%	12.0	13.5	10.0	15.0
PSPMAA1040-5R6M-ANP	5.60	20%	15.2	16.8	9.0	14.0
PSPMAA1040-6R8M-ANP	6.80	20%	19.0	20.1	8.5	13.0
PSPMAA1040-8R2M-ANP	8.20	20%	22.0	25.0	7.5	11.0
PSPMAA1040-100M-ANP	10.00	20%	29.5	33.0	7.0	10.0
PSPMAA1040-150M-ANP	15.00	20%	37.0	41.0	6.7	8.0
PSPMAA1040-220M-ANP	22.00	20%	55.0	60.0	6.0	6.5
PSPMAA1040-330M-ANP	33.00	20%	79.0	87.0	5.0	6.0
PSPMAA1040-470M-ANP	47.00	20%	118.0	139.0	4.0	5.5
PSPMAA1040-560M-ANP	56.00	20%	150.0	170.0	3.5	5.0
PSPMAA1040-680M-ANP	68.00	20%	175.0	200.0	3.0	4.0
PSPMAA1040-820M-ANP	82.00	20%	210.0	240.0	2.8	3.5
PSPMAA1040-101M-ANP	100.00	20%	249.0	270.0	2.5	3.0
PSPMAA1045H-220M-ANP	22.00	20%	60.0	72.0	4.0	6.0
PSPMAA1045H-470M-ANP	47.00	20%	136.0	164.0	3.5	4.5
PSPMAA1045H-680M-ANP	68.00	20%	155.0	230.0	2.5	4.5
PSPMAA1045H-101M-ANP	100.00	20%	250.0	300.0	2.0	4.0



產品編碼 P/N	PSPMAA201610~2213 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	一体成型电感	測試頻率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0302~2213: 100KHZ / 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
1050	10.0±0.5	11.5±1.0	5.0MAX	3.0±0.5	2.5 ± 0.5	4.0 Typ	3.5Typ	9.5Typ
1250	12.8±0.5	13.2±1.0	5.0MAX	3.5±0.5	2.5±0.5	5.0Typ	4.5Typ	10.5Typ

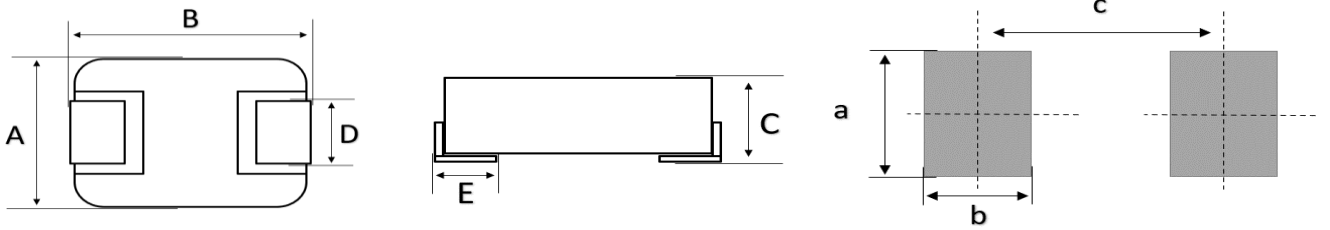
### 1050~1250 Series

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%
PSPMAA1050H-1R0M-ANP	1.00	20%	2.3	2.8	19.0	32.0
PSPMAA1050H-1R5M-ANP	1.50	20%	2.4	2.9	18.0	30.0
PSPMAA1050H-2R2M-ANP	2.20	20%	5.2	7.0	15.0	24.0
PSPMAA1050H-3R3M-ANP	3.30	20%	6.0	8.0	11.0	18.0
PSPMAA1050H-4R7M-ANP	4.70	20%	12.0	14.0	10.0	15.0
PSPMAA1050H-6R8M-ANP	6.80	20%	19.0	23.0	8.0	13.0
PSPMAA1050H-8R2M-ANP	8.20	20%	23.5	35.0	7.5	14.0
PSPMAA1050H-100M-ANP	10.00	20%	29.0	35.0	7.0	12.0
PSPMAA1050H-150M-ANP	15.00	20%	36.0	45.0	6.7	8.0
PSPMAA1050H-220M-ANP	22.00	20%	55.0	65.0	6.0	7.5
PSPMAA1050H-330M-ANP	33.00	20%	70.0	90.0	5.0	7.0
PSPMAA1050H-470M-ANP	47.00	20%	115.0	135.0	4.0	5.5
PSPMAA1050H-560M-ANP	56.00	20%	130.0	150.0	4.0	5.0
PSPMAA1050H-680M-ANP	68.00	20%	155.0	170.0	3.5	5.0
PSPMAA1050H-101M-ANP	100.00	20%	240.0	260.0	3.0	4.0
PSPMAA1050H-151M-ANP	150.00	20%	250.0	280.0	3.0	2.5
PSPMAA1250H-R10M-ANP	0.10	20%	0.55	0.6	55.0	120.0
PSPMAA1250H-R22M-ANP	0.22	20%	0.7	0.8	51.0	110.0
PSPMAA1250H-R33M-ANP	0.33	20%	0.9	1.1	42.0	80.0
PSPMAA1250H-R47M-ANP	0.47	20%	1.05	1.2	40.0	65.0
PSPMAA1250H-R68M-ANP	0.68	20%	1.2	1.4	35.0	54.0
PSPMAA1250H-1R0M-ANP	1.00	20%	1.9	2.2	28.0	50.0
PSPMAA1250H-1R5M-ANP	1.50	20%	2.5	2.9	24.0	36.0
PSPMAA1250H-2R2M-ANP	2.20	20%	4	4.5	16.0	32.0
PSPMAA1250H-3R3M-ANP	3.30	20%	5	6	15.0	30.0
PSPMAA1250H-4R7M-ANP	4.70	20%	6.8	8	14.0	22.0
PSPMAA1250H-6R8M-ANP	6.80	20%	15	17	12.0	21.0
PSPMAA1250H-100M-ANP	10.00	20%	24	28	8.0	16.0
PSPMAA1250H-150M-ANP	15.00	20%	29.5	34	7.5	10.0
PSPMAA1250H-220M-ANP	22.00	20%	46	52	7.0	8.0
PSPMAA1250H-330M-ANP	33.00	20%	63	70	6.0	7.0
PSPMAA1250H-470M-ANP	47.00	20%	100	110	5.0	6.0
PSPMAA1250H-560M-ANP	47.00	20%	122	140	4.5	6.0
PSPMAA1250H-680M-ANP	47.00	20%	145	160	4.0	5.0
PSPMAA1250H-101M-ANP	47.00	20%	210	230	3.0	4.0



產品編碼 P/N	PSPMAA201610~2213 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	一体成型电感	測試頻率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0302~2213: 100KHZ / 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
1265	12.8±0.5	13.2±1.0	6.5MAX	3.5±0.5	2.5±0.5	4.5	3.5	10
1275	12.8±0.5	13.2±1.0	7.5MAX	4.7±0.5	2.5±0.5	5.2	3.5	10

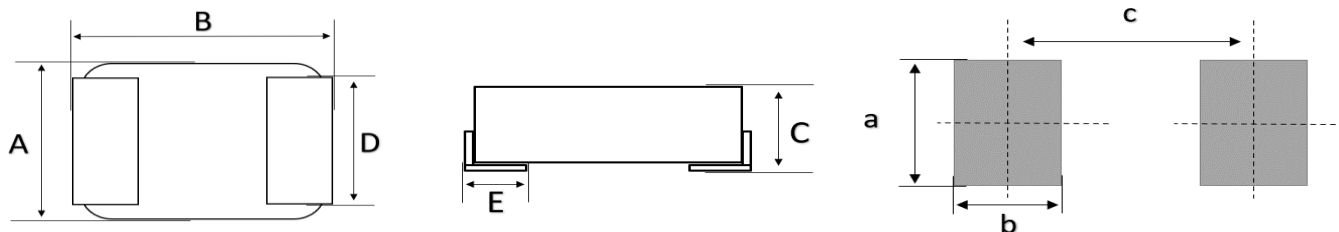
## 1265 Series

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%
PSPMAA1265H-R22M-ANF	0.22	20%	0.4	0.5	53.0	75.0
PSPMAA1265H-R33M-ANF	0.33	20%	0.49	0.65	46.0	62.0
PSPMAA1265H-R47M-ANF	0.47	20%	0.67	0.8	42.0	60.0
PSPMAA1265H-R68M-ANF	0.68	20%	0.85	1.1	36.0	55.0
PSPMAA1265H-1R0M-ANF	1.00	20%	1.6	2	23.0	40.0
PSPMAA1265H-1R5M-ANF	1.50	20%	1.87	2.7	23.0	32.0
PSPMAA1265H-2R2M-ANF	2.20	20%	3.2	4.2	18.0	27.0
PSPMAA1265H-3R3M-ANF	3.30	20%	4.9	5.7	16.0	25.0
PSPMAA1265H-4R7M-ANF	4.70	20%	6.7	8	14.0	25.0
PSPMAA1265H-6R8M-ANF	6.80	20%	10.6	13	13.0	21.0
PSPMAA1265H-8R2M-ANF	8.20	20%	12	15	10.0	19.0
PSPMAA1265H-100M-ANF	10.00	20%	15.5	18	11.0	17.0
PSPMAA1265H-150M-ANF	15.00	20%	24	28	9.5	13.0
PSPMAA1265H-220M-ANF	22.00	20%	29	36	8.0	9.0
PSPMAA1265H-330M-ANF	33.0	20%	45	50	7.0	8.0
PSPMAA1265H-470M-ANF	47.0	20%	68	75	6.0	7.0
PSPMAA1265H-680M-ANF	68.0	20%	101	110	5.0	5.5
PSPMAA1265H-820M-ANF	82.0	20%	123	140	4.5	5.0
PSPMAA1265H-101M-ANF	100.0	20%	135	150	4.0	5.0
PSPMAA1265H-151M-IGP	150.0	20%	180	210	3.5	4.5
PSPMAA1207H-221M-CBF	220.0	20%	290	320	3.0	5.0

產品編碼 P/N	PSPMAA201610~2213 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	一体成型电感	測試頻率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0302~2213: 100KHZ / 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
1770	17.0±0.5	17.50±1.0	7.0MAX	11.94±0.3	2.50±0.5	13Typ	3.1Typ	14.8Typ

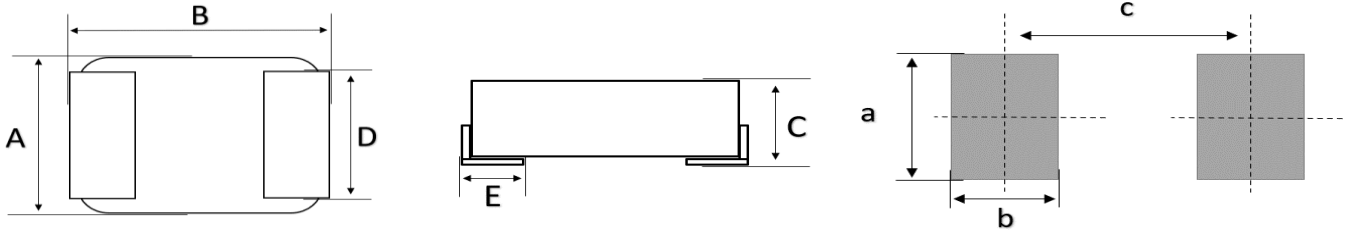
### 1770 Series

產品編碼 P/N	@ 25 °C Ambient Temperture					
	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%
PSPMAA1770-1R0M-IGP	1.0	20%	1.27	1.4	55.5	73.0
PSPMAA1770-1R5M-IGP	1.5	20%	1.65	1.9	48.0	65.0
PSPMAA1770-2R2M-IGP	2.2	20%	2.33	2.6	35.0	62.0
PSPMAA1770-3R3M-IGP	3.3	20%	3.75	4.2	28.0	54.0
PSPMAA1770-4R7M-IGP	4.7	20%	4.30	5.2	25.0	41.0
PSPMAA1770-5R6M-IGP	5.6	20%	5.20	7	21.0	40.0
PSPMAA1770-6R8M-IGP	6.8	20%	7.00	8.5	19.0	35.0
PSPMAA1770-8R2M-IGP	8.2	20%	8.4	10.7	18.0	25.0
PSPMAA1770-100M-IGP	10.0	20%	9.1	12	16.5	25.0
PSPMAA1770-100M-IGP	10.0	20%	8.9	10	19.0	21.0
PSPMAA1770-150M-IGP	15.0	20%	17.5	20	14.0	25.0
PSPMAA1770-220M-IGP	22.0	20%	23.0	27	11.0	23.0
PSPMAA1770-330M-IGP	33.0	20%	31.5	38	10.5	13.0
PSPMAA1770-470M-IGP	47.0	20%	40.0	46	6.5	11.0
PSPMAA1770-560M-IGP	56.0	20%	47.0	52	8.0	10.0
PSPMAA1770-680M-IGP	68.0	20%	53.0	60	8.0	8.0
PSPMAA1770-820M-IGP	82.0	20%	90.0	110	6.5	8.0
PSPMAA1770-101M-IGP	100.0	20%	96.0	110	6.0	7.0
PSPMAA1770-151M-IGP	150.0	20%	165.0	186	4.0	5.0
PSPMAA1770-221M-IGP	220.0	20%	230.0	260	2.0	4.0



產品編碼 P/N	PSPMAA201610~2213 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	一体成型电感	測試頻率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0302~2213: 100KHZ / 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
2213	22.0±0.5	22.5±0.5	13.0Max	18.6±0.3	5.0±0.5	19Typ	6.0Typ	18Typ

## 1770 Series

產品編碼 P/N	@ 25 °C Ambient Temperture					
	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%
PSPMAA2213-1R5M-CGF	1.5	20%	1.00	1.15	52.0	62.0
PSPMAA2213-2R0M-CGF	2.0	20%	1.02	1.20	50.0	60.0
PSPMAA2213-2R2M-CGF	2.2	20%	1.05	1.25	48.0	58.0
PSPMAA2213-3R0M-CGF	3.0	20%	1.42	1.64	44.0	51.0
PSPMAA2213-3R3M-CGF	3.3	20%	1.50	1.75	41.0	49.0
PSPMAA2213-4R7M-CGF	4.7	20%	1.90	2.20	38.0	47.0
PSPMAA2213-6R8M-CGF	6.8	20%	2.70	3.10	36.0	40.0
PSPMAA2213-100M-CGF	10.0	20%	3.80	4.15	28.0	33.0
PSPMAA2213-220M-CGF	22.0	20%	9.20	11.00	15.0	22.0
PSPMAA2213-230M-CGF	23.0	20%	9.20	11.00	15.0	22.0
PSPMAA2213-330M-CGF	33.0	20%	13.50	15.40	12.0	19.0
PSPMAA2213-470M-CGF	47.0	20%	17.30	20.80	12.0	17.0
PSPMAA2213-680M-CGF	68.0	20%	26.20	29.50	12.0	14.0
PSPMAA2213-750M-CGF	75.0	20%	27.50	31.60	10.5	13.0
PSPMAA2213-820M-CGF	82.0	20%	31.00	34.20	9.0	12.0
PSPMAA2213-101M-CGF	100.0	20%	36.00	40.00	9.0	11.0

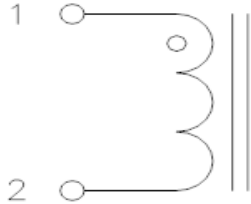


# 特性 CHARACTERISTICS



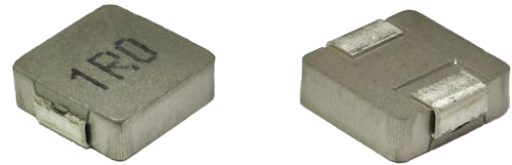
產品編碼 P/N	PSPMAA201610~2213 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	一体成型电感	測試頻率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0302~2213: 100KHZ / 1V

## 電路結構 Connections



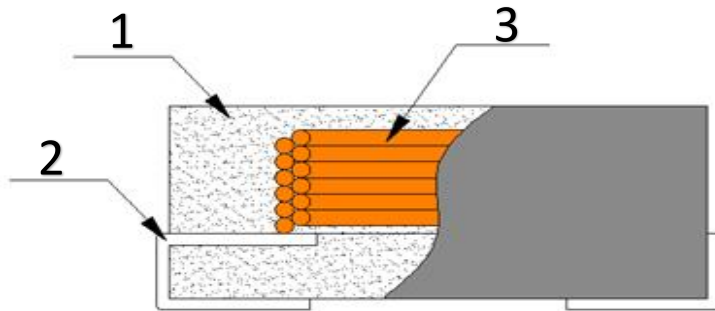
- ◎ 電感內置一組線圈  
Inductor Contents one (1) Set(s) of Coil

## 实物图示 Picture



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

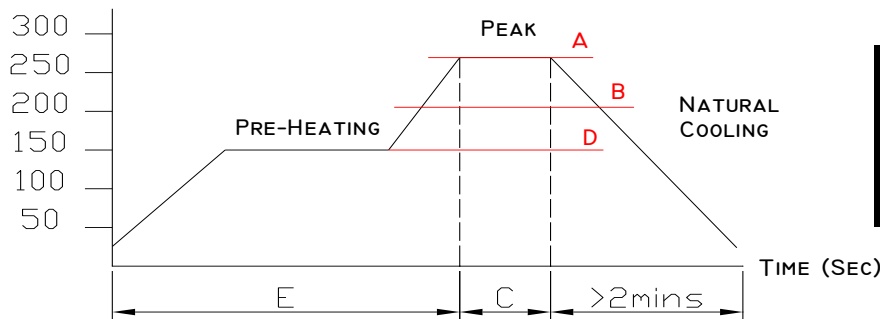
## 产品结构 Product Structure



- 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	PSPMAA201610~2213 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	一体成型电感	測試頻率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0302~2213: 100KHZ / 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/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°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

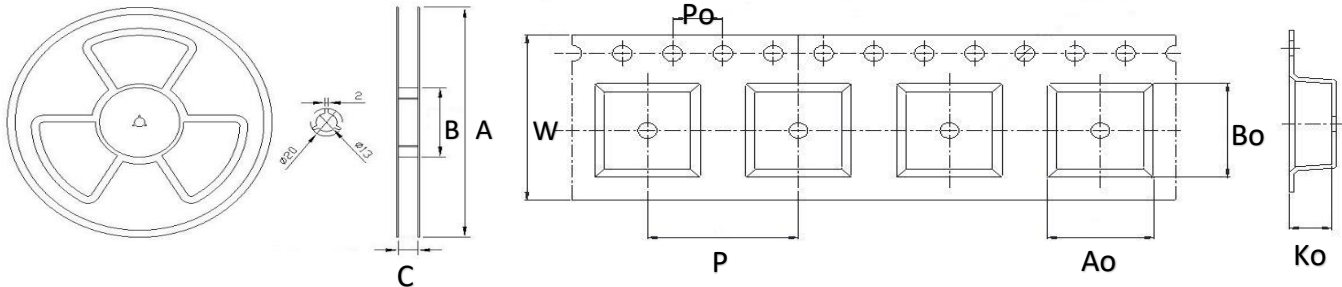




產品編碼 P/N	PSPMAA201610~2213 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	一体成型电感	測試頻率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0302~2213: 100KHZ / 1V

載帶卷盤尺寸 : (mm)

Packing Dimension



系列 Series	A	B	C	W	P	Po	Ao	Bo	Ko
201610	178	58	8.5	8	4	4	2.1 Typ	1.7 Typ	1.1 Typ
252010	178	58	8.5	8	4	4	2.6 Typ	2.1 Typ	1.1 Typ
252012	178	58	8.5	8	4	4	2.6 Typ	2.1 Typ	1.3 Typ
0302	330	100	12	12	8	4	3.3 Typ	3.3 Typ	2.2 Typ
0410	330	100	12	12	8	4	4.5 Typ	4.5 Typ	1.1 Typ
0412	330	100	12	12	8	4	4.3 Typ	4.7 Typ	1.8 Typ
0402	330	100	12	12	8	4	4.6 Typ	4.75 Typ	2.2 Typ
0518	330	100	12.5	12	8	4	5.7 Typ	5.9 Typ	2.2 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
0610	330	100	17	16	12	4	6.4 Typ	6.5 Typ	1.1 Typ
0618	330	100	17	16	12	4	6.9 Typ	7.6 Typ	2.0 Typ
0602	330	100	17	16	12	4	6.9 Typ	7.6 Typ	2.2 Typ
0624	330	100	17	16	12	4	6.9 Typ	7.6 Typ	3.0 Typ
0603/063T	330	100	17	16	12	4	6.9 Typ	7.6 Typ	3.2 Typ
0604	330	100	17	16	12	4	6.9 Typ	7.6 Typ	4.2 Typ
0605	330	100	17	16	12	4	6.9 Typ	7.6 Typ	5.4 Typ
0803	330	100	17	16	12	4	8.6 Typ	9.5 Typ	3.4 Typ
0805	330	100	17	16	12	4	8.6 Typ	9.5 Typ	5.4 Typ
1030	330	100	25	24	16	4	11 Typ	12.6 Typ	3.2 Typ
1040	330	100	25	24	16	4	11 Typ	12.6 Typ	4.2 Typ
1045	330	100	25	24	16	4	11 Typ	12.6 Typ	5.0 Typ
1050	330	100	25	24	16	4	11 Typ	12.6 Typ	5.3 Typ
1250	330	100	25	24	20	4	13.1 Typ	15 Typ	5.3 Typ
1265	330	100	25	24	20	4	13.1 Typ	15 Typ	6.7 Typ
1275	330	100	25	24	20	4	13.1 Typ	15 Typ	7.8 Typ
1770	330	100	32	32	24	4	17.7 Typ	19.4 Typ	7.9 Typ
2213	330	100	44	44	32	4	22.5 Typ	23 Typ	13.6 Typ

# 包裝方式

## PACKING FOR SMD

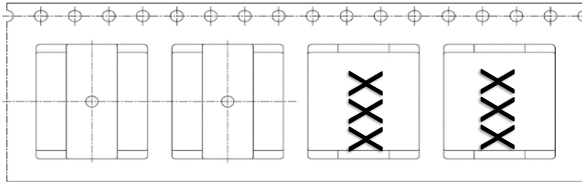


產品編碼 P/N	PSPMAA201610~2213 Series	測試設備 TEST INSTRUMENT	Chroma 3302 16502
產品系列 Series	一体成型电感	測試頻率 TEST FREQUENCY	201610~252012: 1MHZ / 1V 0302~2213: 100KHZ / 1V

**載帶內產品排列方式:**  
Inductance Packing Method

**首字對孔**

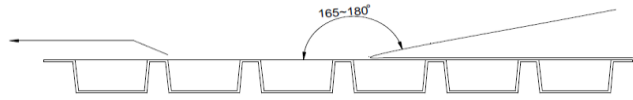
The first mark is on the side of the gear hole



**載帶剝離力:**

Typical Pulling Force

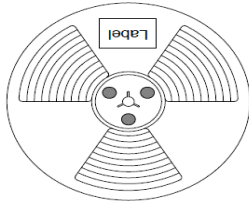
20~120 gf



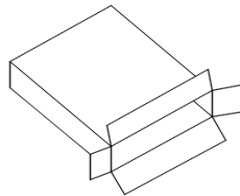
**裝箱數量:**

Package Quantity

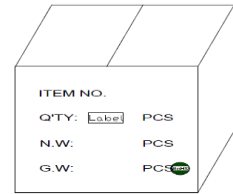
卷盤  
MPQ



內盒  
Middle box



外箱  
Outer box



系列 Series	卷盤 MPQ	內盒 Middle box	外箱 Outer box
201610	3000pcs	15000pcs	75000pcs
252010	3000pcs	15000pcs	75000pcs
252012	3000pcs	15000pcs	75000pcs
0302	3000pcs	15000pcs	75000pcs
0410	5000pcs	15000pcs	45000pcs
0412	3000pcs	9000pcs	36000pcs
0402	2000pcs	6000pcs	24000pcs
0518	2000pcs	6000pcs	24000pcs
0502	2000pcs	6000pcs	24000pcs
0503	2000pcs	6000pcs	24000pcs
0610	3000pcs	9000pcs	27000pcs
0618	2000pcs	6000pcs	24000pcs
0602	2000pcs	6000pcs	24000pcs
0624	1000pcs	3000pcs	9000pcs
0603/063T	1000pcs	3000pcs	9000pcs
0604	1000pcs	3000pcs	9000pcs
0605	1000pcs	3000pcs	9000pcs
0803	1000pcs	3000pcs	9000pcs
0805	1000pcs	3000pcs	9000pcs
1030	800pcs	1600pcs	4800pcs
1040	800pcs	1600pcs	4800pcs
1045	800pcs	1600pcs	4800pcs
1050	800pcs	1600pcs	4800pcs
1250	500pcs	1000pcs	3000pcs
1265	500pcs	1000pcs	3000pcs
1275	500pcs	1000pcs	3000pcs
1770	300pcs	600pcs	2400pcs
2213	100pcs	100pcs	400pcs





## 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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  - 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
  - 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.
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- © As a magnetic product, the design must consider the possible interaction between peripheral components and the product.
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