

製品規格書

SPECIFICATION FOR APPROVAL



| | | | |
|----------------|--------------------------|-------------------------|--|
| 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 : 一体成型电感
 Series : SMD Molding power Inductor

 產品編碼 : PSPMAA201610~2213 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 |
| (Blank area for signature) |

客戶簽章

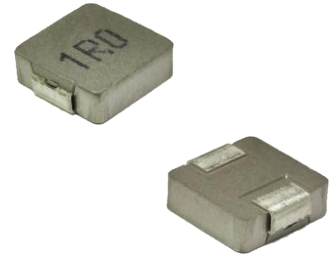


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|----------------|--------------------------|-------------------------|--|
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产品特点

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

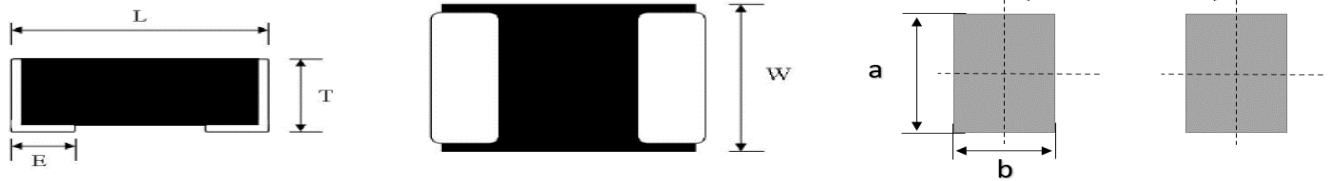
| | | | | | | | |
|---------------|-------------|---|------------|---|-----------|---|--------------|
| PSPMAA | 1040 | - | 4R7 | - | M | - | ANP |
| 类别码 | 尺寸系列 | | 系列码 | | 公差 | | 标识码 |
| Category code | Dimension | | Inductance | | Tolerance | | Other's code |

- ◎ 规格参数基于环境温度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℃ to +125℃
- ◎ 加载温升电流 (Irms) 会使电感温度上升大约 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) 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
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25頁注意事項
The announcements is on page 26



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|----------------|--------------------------|-------------------------|--|
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| 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 | 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

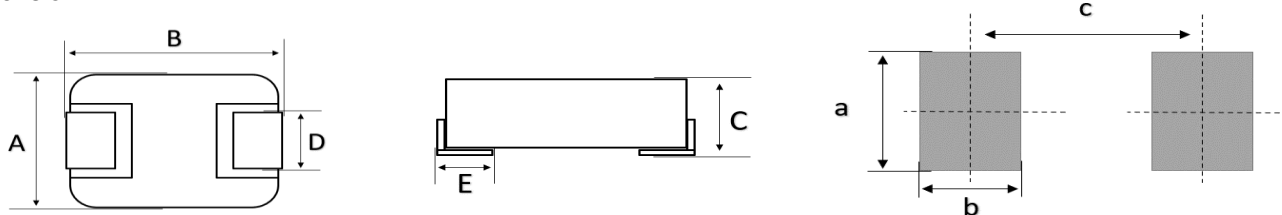
| 產品編碼 P/N | @ 25 °C Ambient Temperture | | | | | |
|----------------------|----------------------------|-----------|-----|------|----------------|----------------|
| | 感值 | 公差 | DCR | | 溫升電流 (IRMS) | 飽和電流 (ISAT) |
| | Inductance | Tolerance | mΩ | | A | A |
| | μH | ± | Typ | Max | ΔT≈40°C | L0 drop≈30% |
| 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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|----------------|--------------------------|-------------------------|--|
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| 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



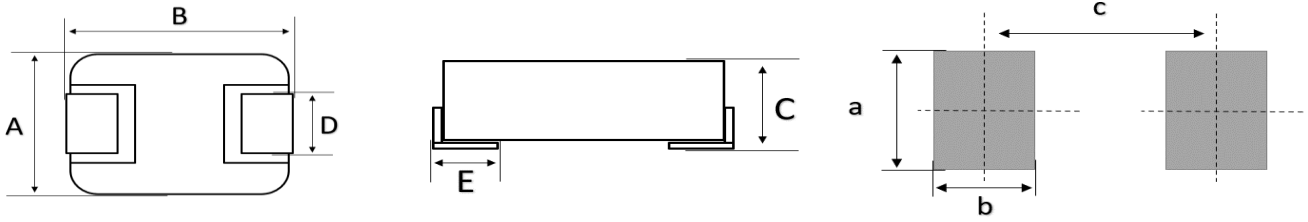
| 系列 Series | 封裝尺寸 Dimension | | | | | 焊盤尺寸 Land Pattern | | |
|--------------|-------------------|----------|---------|---------|---------|----------------------|--------|---------|
| | A | B | C | D | E | a | b | c |
| 0302 | 3.2±0.3 | 3.4±0.3 | 2.0 Max | 1.2±0.3 | 0.7±0.3 | 1.8Typ | 1.1Typ | 1.9Typ |
| 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 |
| <hr/> | | | | | | |
| 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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| 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 |
| 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 |

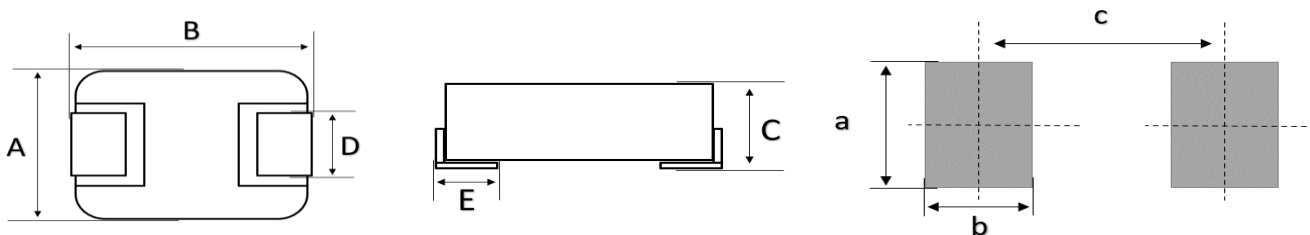
0402 Series

| 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 |

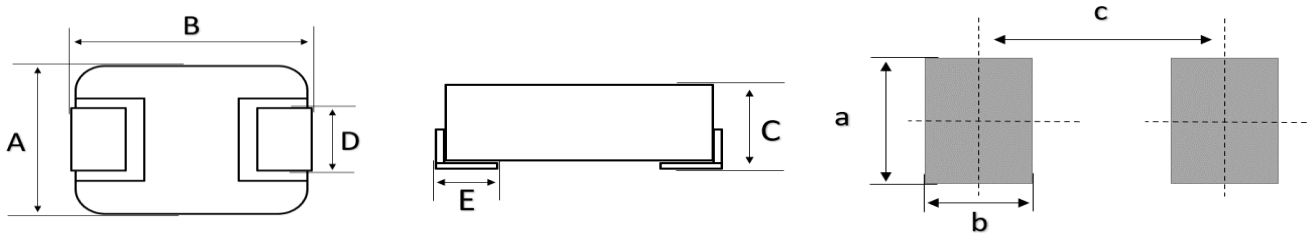
0518 Series

| 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 (mm)
Dimension



| 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 |

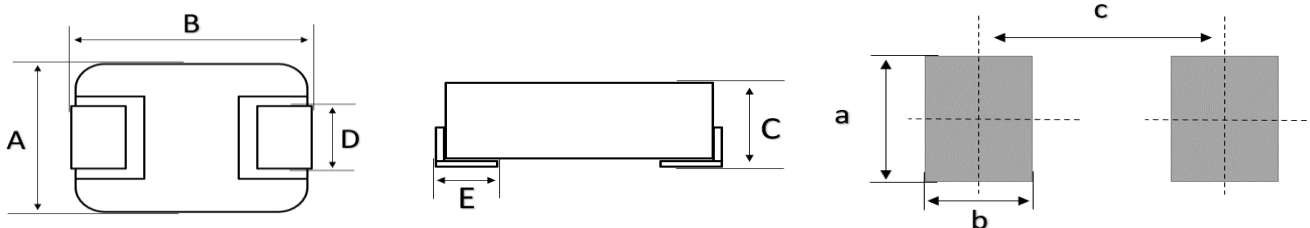
0502 Series

| 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 |

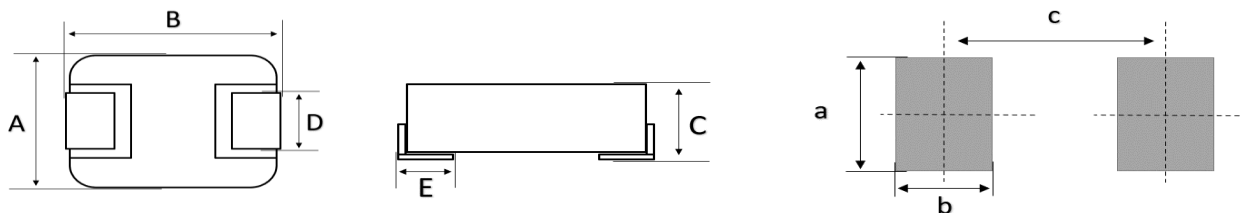
0503 Series

| 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 |



| | | | |
|----------------|--------------------------|-------------------------|--|
| 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)



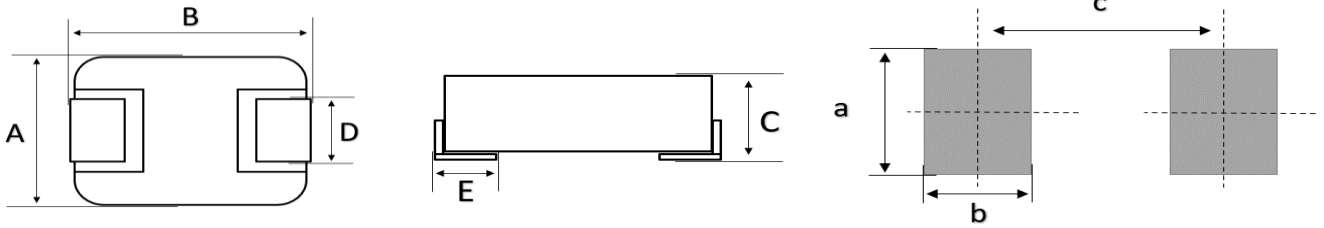
| 系列 Series | 封裝尺寸 Dimension | | | | | 焊盤尺寸 Land Pattern | | |
|--------------|-------------------|---------|--------|----------|---------|----------------------|--------|--------|
| | A | B | C | D | E | a | b | c |
| 0610 | 6.1±0.3 | 6.1±0.3 | 1.0MAX | 1.75±0.3 | 4.0±0.3 | 4.5Typ | 2.3Typ | 5.1Typ |
| 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 Inductance | 公差 Tolerance | DCR | | 溫升電流 (IRMS) A $\Delta T \approx 40^\circ C$ | 飽和電流 (ISAT) A L0 drop $\approx 30\%$ |
| | | | mΩ | | | |
| | μH | ± | Typ | Max | | |
| 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 |

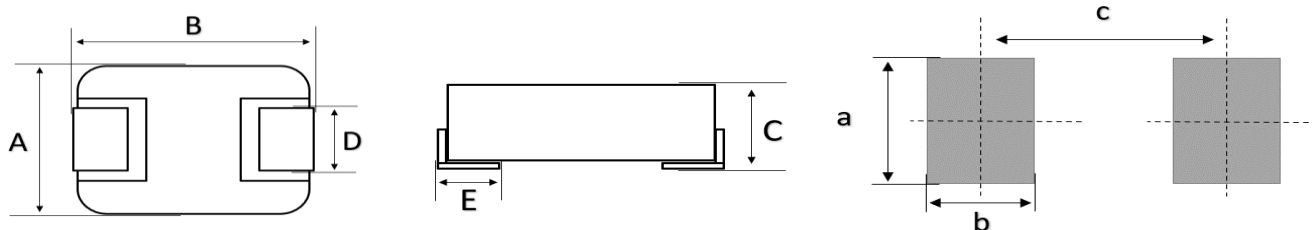
0624 Series

| 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
Dimension (mm)



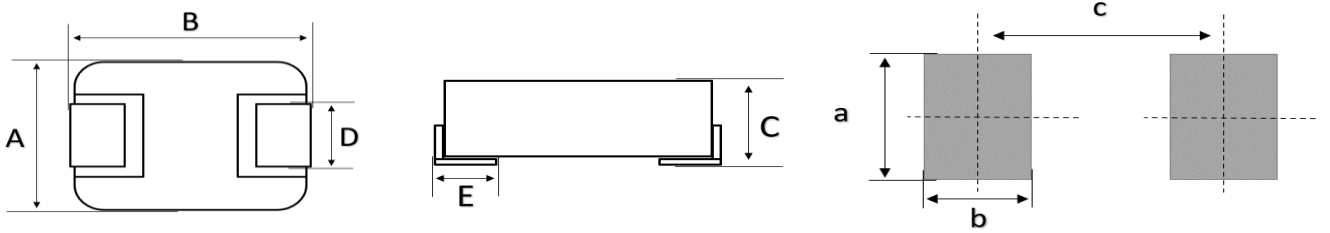
| 系列 Series | 封裝尺寸 Dimension | | | | | 焊盤尺寸 Land Pattern | | |
|--------------|-------------------|---------|--------|---------|---------|----------------------|--------|--------|
| | A | B | C | D | E | a | b | c |
| 0603 | 6.6±0.3 | 7.1±0.3 | 3.0MAX | 3.0±0.5 | 1.6±0.5 | 3.5Typ | 2.1Typ | 5.8Typ |

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 Series | 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 |

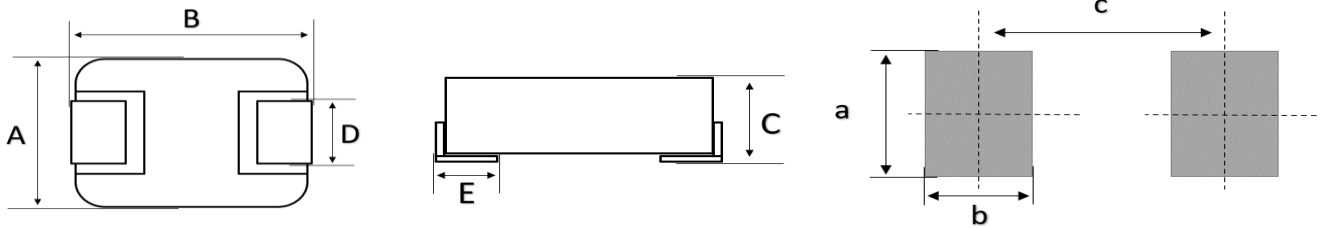
0604 Series

| 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 Series | 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 |

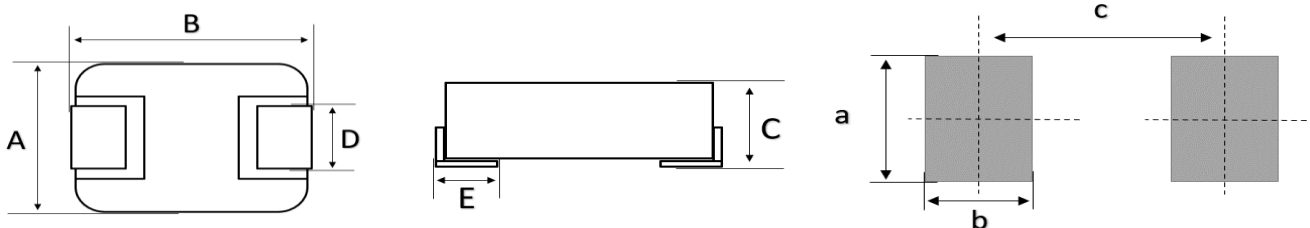
0605 Series

| 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
Dimension (mm)



| 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

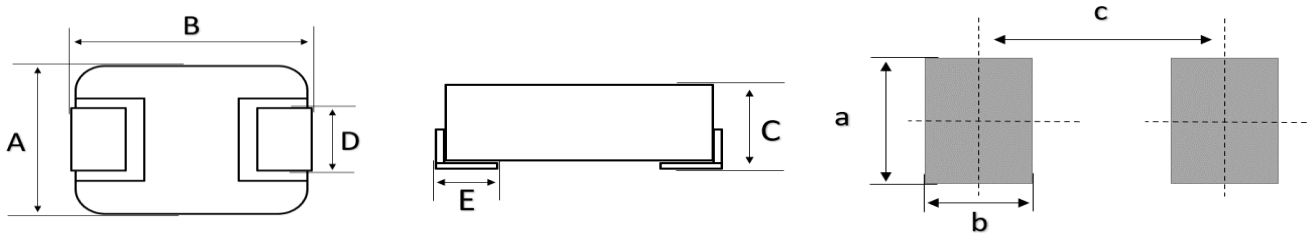
| 產品編碼 P/N | @ 25 °C Ambient Temperture | | | | | |
|----------------------|----------------------------|-----------------|------|-------|----------------|----------------|
| | 感值 Inductance | 公差 Tolerance | DCR | | 溫升電流 (IRMS) | 飽和電流 (ISAT) |
| | | | mΩ | | A | A |
| | μH | ± | Typ | Max | ΔT≈40°C | 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 |

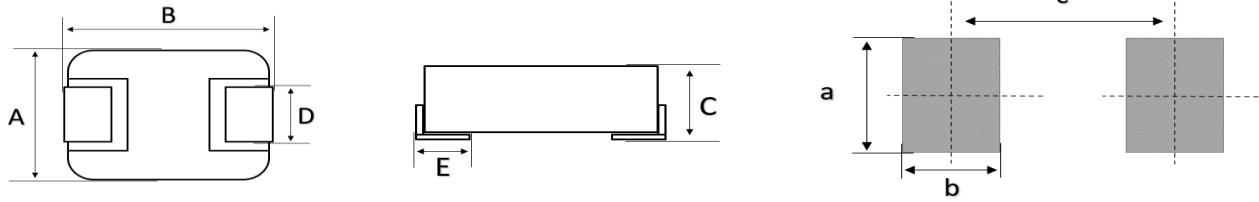
0805 Series

| 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 |

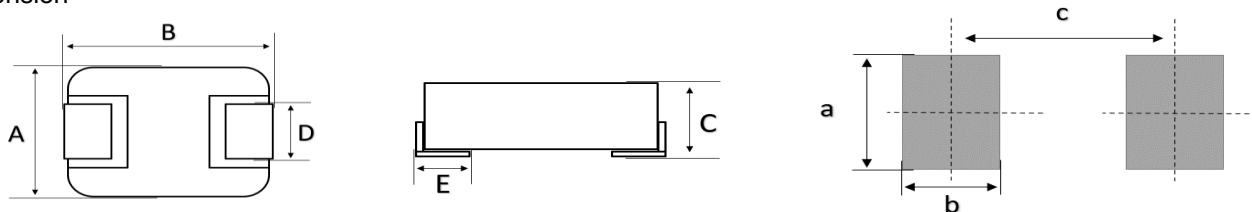
1030 Series

| 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 |

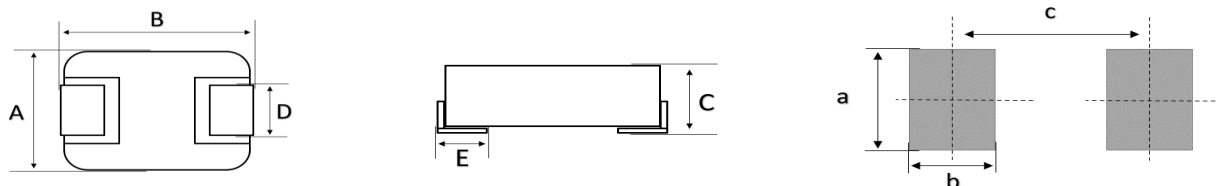
1040~1045 Series

| 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 |

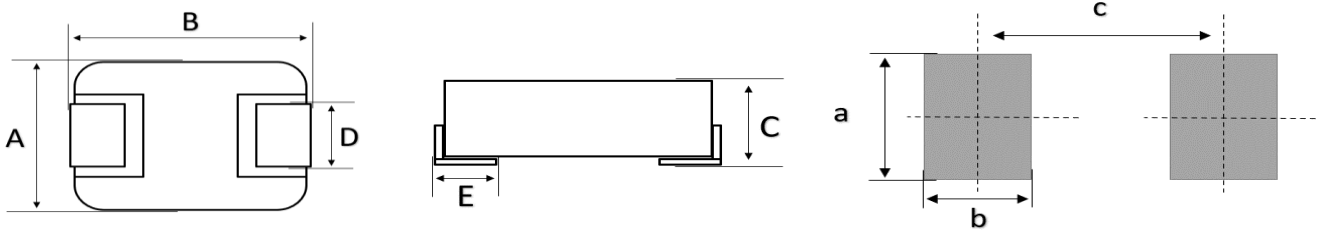
1050~1250 Series

| 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 |

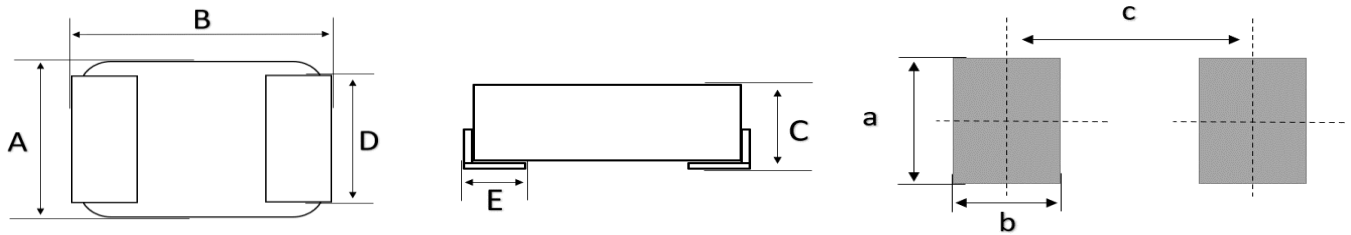
1265 Series

| 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

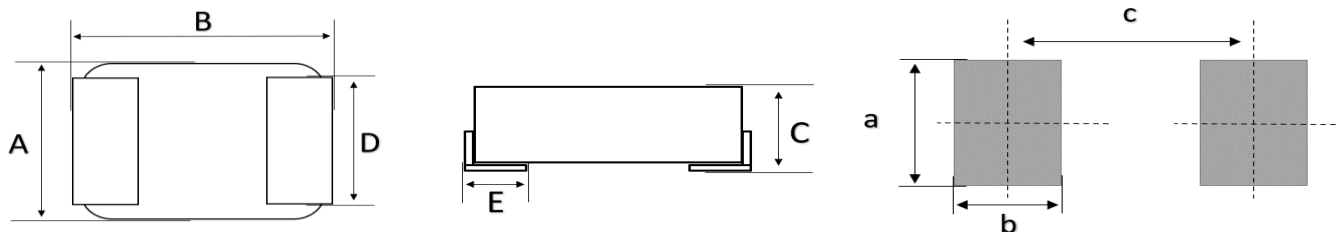
| 產品編碼 P/N | @ 25 °C Ambient Temperture | | | | | |
|---------------------|----------------------------|-----------------|-------|------|----------------|----------------|
| | 感值 Inductance | 公差 Tolerance | DCR | | 溫升電流 (IRMS) | 飽和電流 (ISAT) |
| | | | mΩ | | A | A |
| | μH | ± | Typ | Max | ΔT≈40°C | 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 |

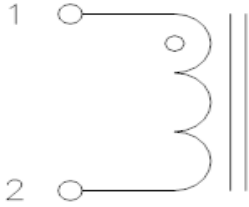


特性 CHARACTERISTICS



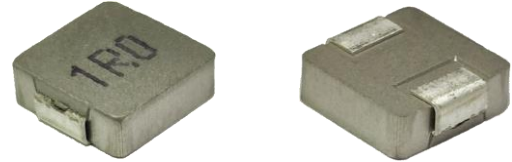
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|----------------|--------------------------|-------------------------|--|
| 產品編碼 P/N | PSPMAA201610~2213 Series | 測試設備 TEST INSTRUMENT | Chroma 3302 16502 |
| 產品系列 Series | 一体成型电感 | 測試頻率 TEST FREQUENCY | 201610~252012: 1MHZ / 1V 0302~2213: 100KHZ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

電路結構 Connections



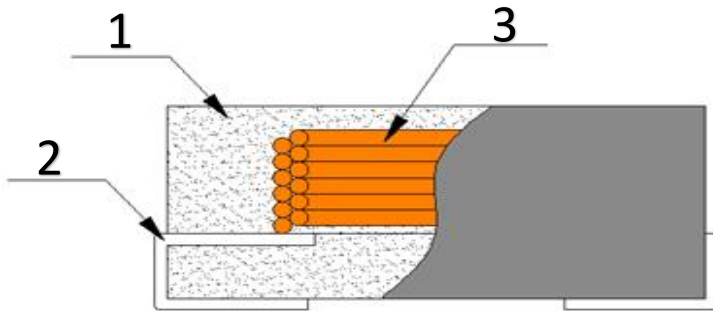
- ◎ 電感內置一組線圈
Inductor Contents one (1) Set(s) of Coil

实物图示 Picture



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

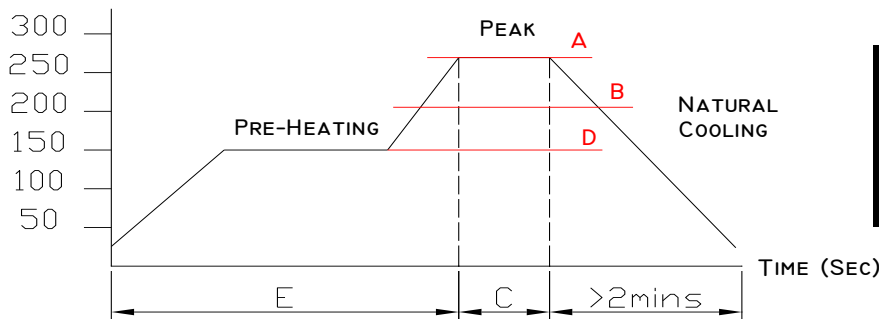
产品结构 Product Structure



- 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/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

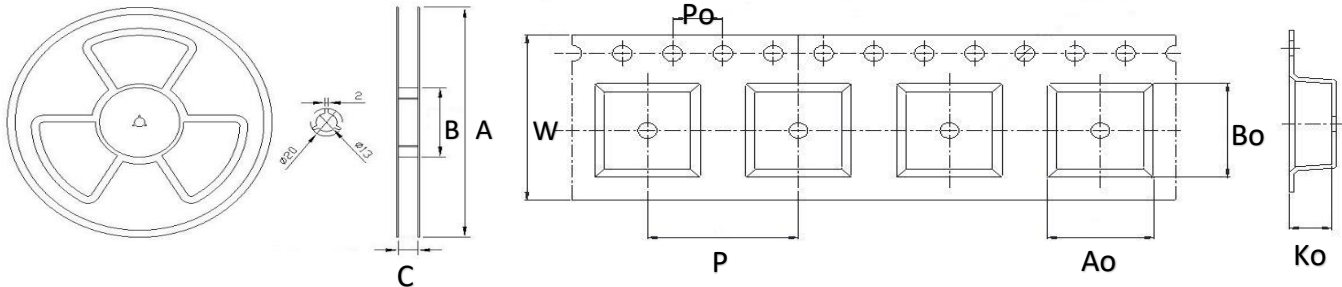
Aging Reliability

| 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 | 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

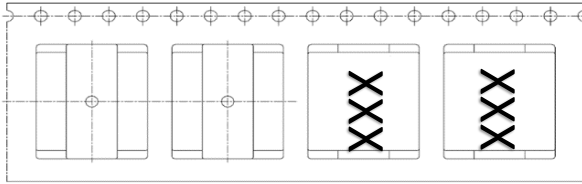


| | | | |
|----------------|--------------------------|-------------------------|--|
| 產品編碼 P/N | PSPMAA201610~2213 Series | 測試設備 TEST INSTRUMENT | Chroma 3302 16502 |
| 產品系列 Series | 一体成型电感 | 測試頻率 TEST FREQUENCY | 201610~252012: 1MHZ / 1V 0302~2213: 100KHZ / 1V |

載帶內產品排列方式:
Inductance Packing Method

首字對孔

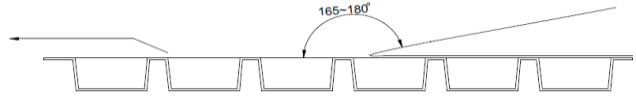
The first mark is on the side of the gear hole



載帶剝離力:

Typical Pulling Force

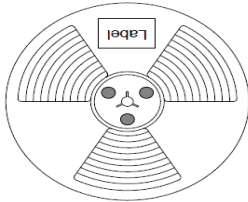
20~120 gf



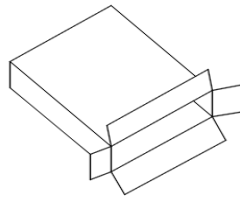
裝箱數量:

Package Quantity

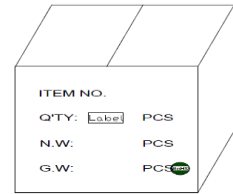
卷盤
MPQ



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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 - 2 運輸設備（汽車，軌道交通產品，船舶等）
 - 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
 - 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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[MHQ1005P5N1S](#) [MHQ1005P8N2J](#) [PE-53601NL](#) [PE-53602NL](#) [PG0936.113NLT](#) [9220-20](#) [9310-16](#) [PM06-2N7](#) [PM06-39NJ](#) [A01TK](#)
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[RCR110DNP-331L](#) [DH2280-4R7M](#) [DS1608C-106](#) [B10TJ](#) [B82498B3101J000](#) [ELJ-RE27NJF2](#) [1812CS-153XJ](#) [1812CS-183XJ](#) [1812CS-](#)
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[1812LS-824XJ](#) [NIN-FB101JTR110F](#) [NIN-FB471JTR62F](#) [NIN-FC1R5JTR220F](#) [NIN-HCR15JTRF](#) [NIN-HCR33JTRF](#) [NIN-HDR22JTRF](#)