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|----------------|---------------------|-------------------------|--------------------|
| 產品編碼 P/N | PSPCAQ32~105 series | 測試設備 TEST INSTRUMENT | Chroma: 3302 16502 |
| 產品系列 Series | 贴片非屏蔽功率电感 | 測試頻率 TEST FREQUENCY | 100KHZ / 0.25V |

客戶名稱
Customer

:

客戶編碼
Customer P/N

:

產品系列
Series

:

贴片非屏蔽功率电感
SMD unshielded Power Inductor

產品編碼
Supply P/N

:

PSPCAQ32~105 series

發版號
Version

:

A3.0

承認日期
Endorsement Date

:

2022-9-17

備註
Note

:

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

客戶承認

Customer Approval

客戶簽章



| | | | |
|----------------|---------------------|-------------------------|--------------------|
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| 產品系列 Series | 贴片非屏蔽功率电感 | 測試頻率 TEST FREQUENCY | 100KHZ / 0.25V |

产品特点

Features

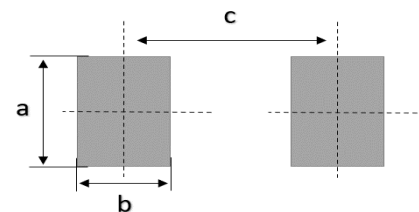
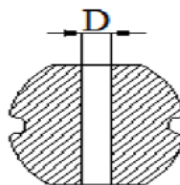
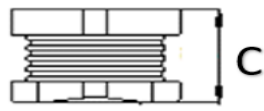
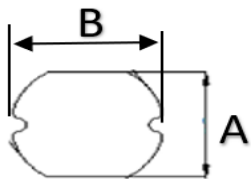
- ☐ SMD结构便于SMT自动贴片
SMD structure is convenient for SMT automatic placement
- ☐ 封装尺寸丰富，电感量范围广
Multiple sizes and wide inductance range
- ☐ 成本低，应用范围广
Low cost and wide range of applications
- ☐ 超小超薄的结构减少PCB的占用面积
Takes up less PCB real estate and save more power



編碼解釋

Code interpretation

| | | | | |
|--------------------|------------|--------------|---|-----------|
| P S P C A Q | 3 2 | 1 R 0 | - | M |
| 類別碼 | 尺寸系列 | 系列碼 | | 公差 |
| Category code | Dimension | Inductance | | Tolerance |

封装尺寸
Dimension (mm)推薦的焊盤尺寸
Recommaned Land Pattern

| 系列 Series | 封装尺寸 Dimension | | | | 焊盤尺寸 Land Pattern | | | 最小包裝 MPQ |
|--------------|-------------------|----------|---------|---------|----------------------|-----|-----|-------------|
| | A | B | C | D | a | b | c | |
| CD32 | 3.0±0.3 | 3.5±0.3 | 2.1±0.3 | 1.0 Ref | 3.1 | 1.3 | 2.3 | 3000pcs/卷盤 |
| CD43 | 4.0±0.3 | 4.5±0.3 | 3.2±0.3 | 1.2 Ref | 4.5 | 1.9 | 3.1 | 2000pcs/卷盤 |
| CD53 | 5.2±0.3 | 5.8±0.3 | 3.0±0.3 | 2.0 Ref | 5.5 | 2.4 | 4.1 | 2000pcs/卷盤 |
| CD54 | 5.2±0.3 | 5.8±0.3 | 4.5±0.3 | 2.0 Ref | 5.5 | 2.4 | 4.1 | 1500pcs/卷盤 |
| CD75 | 7.0±0.3 | 7.8±0.3 | 5.0±0.3 | 2.1 Ref | 7.5 | 3 | 5.6 | 1000pcs/卷盤 |
| CD105 | 9.0±0.3 | 10.0±0.3 | 5.4±0.3 | 2.5 Ref | 9.5 | 3.8 | 6.8 | 1000pcs/卷盤 |



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| 產品系列 Series | 贴片非屏蔽功率电感 | 測試頻率 TEST FREQUENCY | 100KHZ / 0.25V |

CD32 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 | Ω | mA | mA |
| | μH | \pm | Max | $\Delta T \approx 40^\circ\text{C}$ | L0 drop $\approx 20\%$ |
| PSPCAQ32-1R0M | 1.0 | 20% | 0.045 | 2200 | 2200 |
| PSPCAQ32-1R2M | 1.2 | 20% | 0.05 | 2100 | 2100 |
| PSPCAQ32-1R5M | 1.5 | 20% | 0.06 | 1700 | 1700 |
| PSPCAQ32-1R8M | 1.8 | 20% | 0.07 | 1650 | 1650 |
| PSPCAQ32-2R2M | 2.2 | 20% | 0.085 | 1600 | 1600 |
| PSPCAQ32-2R7M | 2.7 | 20% | 0.1 | 1400 | 1400 |
| PSPCAQ32-3R3M | 3.3 | 20% | 0.12 | 1050 | 1050 |
| PSPCAQ32-3R9M | 3.9 | 20% | 0.125 | 1000 | 1000 |
| PSPCAQ32-4R7M | 4.7 | 20% | 0.145 | 1000 | 1000 |
| PSPCAQ32-5R6M | 5.6 | 20% | 0.16 | 950 | 950 |
| PSPCAQ32-6R8M | 6.8 | 20% | 0.2 | 950 | 950 |
| PSPCAQ32-8R2M | 8.2 | 20% | 0.3 | 920 | 920 |
| PSPCAQ32-100M | 10 | 20% | 0.33 | 900 | 900 |
| PSPCAQ32-120M | 12 | 20% | 0.35 | 850 | 850 |
| PSPCAQ32-150M | 15 | 20% | 0.5 | 750 | 750 |
| PSPCAQ32-180M | 18 | 20% | 0.55 | 700 | 700 |
| PSPCAQ32-220M | 22 | 20% | 0.66 | 600 | 600 |
| PSPCAQ32-270M | 27 | 20% | 0.76 | 550 | 550 |
| PSPCAQ32-330M | 33 | 20% | 0.96 | 500 | 500 |
| PSPCAQ32-390M | 39 | 20% | 1.1 | 480 | 480 |
| PSPCAQ32-470M | 47 | 20% | 1.6 | 450 | 450 |
| PSPCAQ32-560M | 56 | 20% | 1.8 | 300 | 300 |
| PSPCAQ32-680M | 68 | 20% | 2.0 | 260 | 260 |
| PSPCAQ32-820M | 82 | 20% | 2.2 | 230 | 230 |
| PSPCAQ32-101M | 100 | 20% | 3.0 | 200 | 200 |
| PSPCAQ32-121M | 120 | 20% | 3.2 | 180 | 180 |
| PSPCAQ32-151M | 150 | 20% | 4.2 | 160 | 160 |
| PSPCAQ32-181M | 180 | 20% | 5.11 | 150 | 150 |
| PSPCAQ32-221M | 220 | 20% | 7.31 | 140 | 140 |
| PSPCAQ32-271M | 270 | 20% | 8.5 | 100 | 100 |
| PSPCAQ32-331M | 330 | 20% | 10.2 | 90 | 90 |



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| 產品系列 Series | 贴片非屏蔽功率电感 | 測試頻率 TEST FREQUENCY | 100KHZ / 0.25V |

CD43 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 | Ω | mA | mA |
| | μH | \pm | Max | $\Delta T \approx 40^\circ\text{C}$ | L0 drop $\approx 20\%$ |
| PSPCAQ43-1R0M | 1.0 | 20% | 0.033 | 4000 | 4000 |
| PSPCAQ43-1R5M | 1.5 | 20% | 0.038 | 3900 | 3900 |
| PSPCAQ43-1R8M | 1.8 | 20% | 0.042 | 3600 | 3600 |
| PSPCAQ43-2R2M | 2.2 | 20% | 0.047 | 3200 | 3200 |
| PSPCAQ43-2R7M | 2.7 | 20% | 0.052 | 3000 | 3000 |
| PSPCAQ43-3R3M | 3.3 | 20% | 0.058 | 2800 | 2800 |
| PSPCAQ43-3R9M | 3.9 | 20% | 0.076 | 2500 | 2500 |
| PSPCAQ43-4R7M | 4.7 | 20% | 0.094 | 2100 | 2100 |
| PSPCAQ43-5R6M | 5.6 | 20% | 0.101 | 2000 | 2000 |
| PSPCAQ43-6R8M | 6.8 | 20% | 0.117 | 1900 | 1900 |
| PSPCAQ43-8R2M | 8.2 | 20% | 0.132 | 1700 | 1700 |
| PSPCAQ43-100M | 10 | 20% | 0.182 | 1500 | 1500 |
| PSPCAQ43-120M | 12 | 20% | 0.210 | 1400 | 1400 |
| PSPCAQ43-150M | 15 | 20% | 0.235 | 1200 | 1200 |
| PSPCAQ43-180M | 18 | 20% | 0.338 | 1000 | 1000 |
| PSPCAQ43-220M | 22 | 20% | 0.378 | 900 | 900 |
| PSPCAQ43-270M | 27 | 20% | 0.522 | 850 | 850 |
| PSPCAQ43-330M | 33 | 20% | 0.540 | 800 | 800 |
| PSPCAQ43-390M | 39 | 20% | 0.587 | 650 | 650 |
| PSPCAQ43-470M | 47 | 20% | 0.844 | 610 | 610 |
| PSPCAQ43-560M | 56 | 20% | 0.937 | 600 | 600 |
| PSPCAQ43-680M | 68 | 20% | 1.117 | 550 | 550 |
| PSPCAQ43-820M | 82 | 20% | 1.345 | 510 | 510 |
| PSPCAQ43-101M | 100 | 20% | 1.520 | 490 | 490 |
| PSPCAQ43-121M | 120 | 20% | 1.800 | 480 | 480 |
| PSPCAQ43-151M | 150 | 20% | 2.000 | 460 | 460 |
| PSPCAQ43-181M | 180 | 20% | 3.200 | 440 | 440 |
| PSPCAQ43-221M | 220 | 20% | 3.400 | 400 | 400 |
| PSPCAQ43-271M | 270 | 20% | 3.900 | 380 | 380 |
| PSPCAQ43-331M | 330 | 20% | 5.300 | 330 | 330 |
| PSPCAQ43-391M | 390 | 20% | 5.900 | 300 | 300 |
| PSPCAQ43-471M | 470 | 20% | 6.800 | 250 | 230 |
| PSPCAQ43-561M | 560 | 20% | 8.500 | 200 | 200 |
| PSPCAQ43-681M | 680 | 20% | 10.000 | 180 | 180 |
| PSPCAQ43-821M | 820 | 20% | 13.400 | 150 | 150 |
| PSPCAQ43-102M | 1000 | 20% | 15.600 | 140 | 140 |
| PSPCAQ43-222K | 2200 | 10% | 32 | 100 | 100 |



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CD53 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 | Ω | mA | mA |
| | μ H | \pm | Max | $\Delta T \approx 40^\circ\text{C}$ | L0 drop $\approx 20\%$ |
| PSPCAQ53-1R0M | 1.0 | 20% | 0.030 | 4500 | 4500 |
| PSPCAQ53-1R2M | 1.2 | 20% | 0.030 | 4200 | 4200 |
| PSPCAQ53-1R5M | 1.5 | 20% | 0.030 | 4100 | 4100 |
| PSPCAQ53-1R8M | 1.8 | 20% | 0.030 | 3700 | 3700 |
| PSPCAQ53-2R2M | 2.2 | 20% | 0.030 | 3500 | 3500 |
| PSPCAQ53-2R7M | 2.7 | 20% | 0.040 | 3200 | 3200 |
| PSPCAQ53-3R3M | 3.3 | 20% | 0.050 | 2800 | 2800 |
| PSPCAQ53-3R9M | 3.9 | 20% | 0.060 | 2600 | 2600 |
| PSPCAQ53-4R7M | 4.7 | 20% | 0.070 | 2500 | 2500 |
| PSPCAQ53-5R6M | 5.6 | 20% | 0.080 | 2400 | 2400 |
| PSPCAQ53-6R8M | 6.8 | 20% | 0.090 | 2200 | 2200 |
| PSPCAQ53-8R2M | 8.2 | 20% | 0.100 | 2000 | 2000 |
| PSPCAQ53-100M | 10 | 20% | 0.120 | 1800 | 1800 |
| PSPCAQ53-120M | 12 | 20% | 0.130 | 1750 | 1750 |
| PSPCAQ53-150M | 15 | 20% | 0.150 | 1700 | 1700 |
| PSPCAQ53-180M | 18 | 20% | 0.180 | 1600 | 1600 |
| PSPCAQ53-220M | 22 | 20% | 0.220 | 1500 | 1500 |
| PSPCAQ53-270M | 27 | 20% | 0.240 | 1400 | 1400 |
| PSPCAQ53-330M | 33 | 20% | 0.300 | 1100 | 1100 |
| PSPCAQ53-390M | 39 | 20% | 0.400 | 1000 | 1000 |
| PSPCAQ53-470M | 47 | 20% | 0.430 | 900 | 900 |
| PSPCAQ53-560M | 56 | 20% | 0.500 | 850 | 850 |
| PSPCAQ53-680M | 68 | 20% | 0.600 | 800 | 800 |
| PSPCAQ53-820M | 82 | 20% | 0.800 | 650 | 650 |
| PSPCAQ53-101M | 100 | 20% | 0.900 | 600 | 600 |
| PSPCAQ53-121M | 120 | 20% | 1.000 | 580 | 580 |
| PSPCAQ53-151M | 150 | 20% | 1.300 | 430 | 430 |
| PSPCAQ53-181M | 180 | 20% | 1.500 | 400 | 400 |
| PSPCAQ53-221M | 220 | 20% | 2.000 | 380 | 380 |
| PSPCAQ53-271M | 270 | 20% | 2.500 | 350 | 350 |
| PSPCAQ53-331M | 330 | 20% | 3.200 | 280 | 280 |
| PSPCAQ53-391M | 390 | 20% | 3.500 | 260 | 260 |
| PSPCAQ53-471M | 470 | 20% | 4.200 | 200 | 200 |
| PSPCAQ53-561M | 560 | 20% | 4.500 | 190 | 190 |
| PSPCAQ53-681M | 680 | 20% | 6.000 | 180 | 180 |
| PSPCAQ53-821M | 820 | 20% | 6.500 | 150 | 150 |
| PSPCAQ53-102M | 1000 | 20% | 8.000 | 130 | 130 |



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| 產品系列 Series | 贴片非屏蔽功率电感 | 測試頻率 TEST FREQUENCY | 100KHZ / 0.25V |

CD54 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 | Ω | mA | mA |
| | μ H | \pm | Max | $\Delta T \approx 40^\circ\text{C}$ | L0 drop $\approx 20\%$ |
| PSPCAQ54-1R0M | 1.0 | 20% | 0.015 | 6000 | 6000 |
| PSPCAQ54-1R2M | 1.2 | 20% | 0.02 | 5800 | 5200 |
| PSPCAQ54-1R5M | 1.5 | 20% | 0.025 | 5500 | 4700 |
| PSPCAQ54-1R8M | 1.8 | 20% | 0.03 | 4800 | 4000 |
| PSPCAQ54-2R2M | 2.2 | 20% | 0.035 | 4500 | 3800 |
| PSPCAQ54-2R7M | 2.7 | 20% | 0.04 | 4000 | 3400 |
| PSPCAQ54-3R3M | 3.3 | 20% | 0.045 | 3800 | 3300 |
| PSPCAQ54-3R9M | 3.9 | 20% | 0.05 | 3600 | 2900 |
| PSPCAQ54-4R7M | 4.7 | 20% | 0.06 | 3400 | 2800 |
| PSPCAQ54-5R6M | 5.6 | 20% | 0.07 | 3000 | 2400 |
| PSPCAQ54-6R8M | 6.8 | 20% | 0.08 | 2700 | 2100 |
| PSPCAQ54-8R2M | 8.2 | 20% | 0.09 | 2500 | 2000 |
| PSPCAQ54-100M | 10 | 20% | 0.1 | 2000 | 1440 |
| PSPCAQ54-120M | 12 | 20% | 0.12 | 1800 | 1400 |
| PSPCAQ54-150M | 15 | 20% | 0.14 | 1700 | 1300 |
| PSPCAQ54-180M | 18 | 20% | 0.15 | 1600 | 1230 |
| PSPCAQ54-220M | 22 | 20% | 0.18 | 1400 | 1110 |
| PSPCAQ54-270M | 27 | 20% | 0.2 | 1200 | 970 |
| PSPCAQ54-330M | 33 | 20% | 0.23 | 1100 | 880 |
| PSPCAQ54-390M | 39 | 20% | 0.32 | 1000 | 800 |
| PSPCAQ54-470M | 47 | 20% | 0.37 | 900 | 720 |
| PSPCAQ54-560M | 56 | 20% | 0.42 | 800 | 680 |
| PSPCAQ54-680M | 68 | 20% | 0.46 | 700 | 610 |
| PSPCAQ54-820M | 82 | 20% | 0.6 | 680 | 580 |
| PSPCAQ54-101M | 100 | 20% | 0.7 | 650 | 520 |
| PSPCAQ54-121M | 120 | 20% | 0.93 | 550 | 480 |
| PSPCAQ54-151M | 150 | 20% | 1.1 | 500 | 400 |
| PSPCAQ54-181M | 180 | 20% | 1.38 | 460 | 380 |
| PSPCAQ54-221M | 220 | 20% | 1.57 | 400 | 350 |
| PSPCAQ54-271M | 270 | 20% | 1.65 | 380 | 320 |
| PSPCAQ54-331M | 330 | 20% | 1.7 | 320 | 280 |
| PSPCAQ54-391M | 390 | 20% | 1.8 | 300 | 260 |
| PSPCAQ54-471M | 470 | 20% | 2.3 | 280 | 230 |
| PSPCAQ54-561M | 560 | 20% | 3 | 250 | 200 |
| PSPCAQ54-681M | 680 | 20% | 3.9 | 230 | 190 |
| PSPCAQ54-821M | 820 | 20% | 5 | 200 | 200 |
| PSPCAQ54-102M | 1000 | 20% | 5.8 | 200 | 200 |
| PSPCAQ54-152M | 1500 | 20% | 10 | 200 | 200 |
| PSPCAQ54-222M | 2200 | 20% | 15 | 150 | 150 |



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CD75 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 | Ω | mA | mA |
| | μH | \pm | Max | $\Delta T \approx 40^\circ\text{C}$ | L0 drop $\approx 20\%$ |
| PSPCAQ75-1R0M | 1.0 | 20% | 0.013 | 8000 | 8000 |
| PSPCAQ75-1R2M | 1.2 | 20% | 0.015 | 7500 | 7500 |
| PSPCAQ75-1R5M | 1.5 | 20% | 0.023 | 6000 | 6000 |
| PSPCAQ75-1R8M | 1.8 | 20% | 0.025 | 6000 | 6000 |
| PSPCAQ75-2R2M | 2.2 | 20% | 0.028 | 5000 | 5000 |
| PSPCAQ75-3R3M | 3.3 | 20% | 0.045 | 4500 | 4500 |
| PSPCAQ75-4R7M | 4.7 | 20% | 0.058 | 3500 | 3500 |
| PSPCAQ75-6R8M | 6.8 | 20% | 0.070 | 3200 | 3200 |
| PSPCAQ75-100M | 10 | 20% | 0.070 | 2800 | 2800 |
| PSPCAQ75-120M | 12 | 20% | 0.080 | 2500 | 2500 |
| PSPCAQ75-150M | 15 | 20% | 0.090 | 2100 | 2100 |
| PSPCAQ75-180M | 18 | 20% | 0.100 | 2000 | 2000 |
| PSPCAQ75-220M | 22 | 20% | 0.110 | 1800 | 1800 |
| PSPCAQ75-270M | 27 | 20% | 0.120 | 1600 | 1600 |
| PSPCAQ75-330M | 33 | 20% | 0.130 | 1400 | 1400 |
| PSPCAQ75-390M | 39 | 20% | 0.160 | 1300 | 1300 |
| PSPCAQ75-470M | 47 | 20% | 0.180 | 1200 | 1200 |
| PSPCAQ75-560M | 56 | 20% | 0.240 | 1000 | 1000 |
| PSPCAQ75-680M | 68 | 20% | 0.280 | 950 | 950 |
| PSPCAQ75-820M | 82 | 20% | 0.370 | 850 | 850 |
| PSPCAQ75-101M | 100 | 20% | 0.430 | 800 | 800 |
| PSPCAQ75-121M | 120 | 20% | 0.470 | 720 | 720 |
| PSPCAQ75-151M | 150 | 20% | 0.640 | 650 | 650 |
| PSPCAQ75-181M | 180 | 20% | 0.710 | 600 | 600 |
| PSPCAQ75-221M | 220 | 20% | 0.960 | 550 | 550 |
| PSPCAQ75-271M | 270 | 20% | 1.110 | 500 | 500 |
| PSPCAQ75-331M | 330 | 20% | 1.260 | 450 | 450 |
| PSPCAQ75-391M | 390 | 20% | 1.770 | 400 | 400 |
| PSPCAQ75-471M | 470 | 20% | 1.960 | 380 | 380 |
| PSPCAQ75-681M | 680 | 20% | 2.480 | 350 | 350 |
| PSPCAQ75-821M | 820 | 20% | 3.400 | 300 | 300 |
| PSPCAQ75-102M | 1000 | 20% | 4.000 | 250 | 250 |
| PSPCAQ75-222M | 2200 | 20% | 9.000 | 200 | 200 |



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| 產品系列 Series | 贴片非屏蔽功率电感 | 測試頻率 TEST FREQUENCY | 100KHZ / 0.25V |

CD105 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 | Ω | mA | mA |
| | μH | \pm | Max | $\Delta T \approx 40^\circ\text{C}$ | L0 drop $\approx 20\%$ |
| PSPCAQ105-1R0M | 1.0 | 20% | 0.01 | 16000 | 16000 |
| PSPCAQ105-1R5M | 1.5 | 20% | 0.02 | 12000 | 12000 |
| PSPCAQ105-2R2M | 2.2 | 20% | 0.02 | 10000 | 10000 |
| PSPCAQ105-3R3M | 3.3 | 20% | 0.03 | 8000 | 8000 |
| PSPCAQ105-4R7M | 4.7 | 20% | 0.03 | 6000 | 6000 |
| PSPCAQ105-6R8M | 6.8 | 20% | 0.04 | 5000 | 5000 |
| PSPCAQ105-100M | 10 | 20% | 0.06 | 4500 | 4500 |
| PSPCAQ105-150M | 15 | 20% | 0.08 | 4000 | 4000 |
| PSPCAQ105-220M | 22 | 20% | 0.1 | 3000 | 3000 |
| PSPCAQ105-330M | 33 | 20% | 0.12 | 2800 | 2800 |
| PSPCAQ105-470M | 47 | 20% | 0.17 | 1800 | 1800 |
| PSPCAQ105-560M | 56 | 20% | 0.19 | 1600 | 1600 |
| PSPCAQ105-680M | 68 | 20% | 0.22 | 1400 | 1400 |
| PSPCAQ105-820M | 82 | 20% | 0.25 | 1300 | 1300 |
| PSPCAQ105-101M | 100 | 20% | 0.35 | 1200 | 1200 |
| PSPCAQ105-151M | 150 | 20% | 0.47 | 1000 | 1000 |
| PSPCAQ105-181M | 180 | 20% | 0.63 | 900 | 900 |
| PSPCAQ105-221M | 220 | 20% | 0.73 | 800 | 800 |
| PSPCAQ105-271M | 270 | 20% | 0.97 | 750 | 750 |
| PSPCAQ105-331M | 330 | 20% | 1.15 | 700 | 700 |
| PSPCAQ105-391M | 390 | 20% | 1.3 | 650 | 650 |
| PSPCAQ105-471M | 470 | 20% | 1.48 | 600 | 600 |
| PSPCAQ105-561M | 560 | 20% | 1.9 | 550 | 550 |
| PSPCAQ105-681M | 680 | 20% | 2.25 | 500 | 500 |
| PSPCAQ105-821M | 820 | 20% | 2.55 | 450 | 450 |
| PSPCAQ105-102M | 1000 | 20% | 3 | 420 | 420 |
| PSPCAQ105-222M | 2200 | 20% | 5.5 | 400 | 400 |
| PSPCAQ105-302M | 3000 | 20% | 12 | 250 | 250 |

- ◎ 規格內參數基於環境溫度25°C取得
All test Data is referenced to 25°C ambient
- ◎ 電感工作環境溫度：-25°C ~ 105°C
Operating temperature range -25 °C to +105 °C
- ◎ 加載溫升電流 (Irms) 會使電感溫度上升大約 40°C (電感初始溫度+上升溫度=電感最終溫度)
Typical Irms would cause an approximately ΔT of 40°C
- ◎ 加載飽和電流 (ISAT) 會使感量下降大約30%
Typical ISAT would cause Lo to drop approximately 30%.
- ◎ 請從溫升電流 (IRMS) 和飽和電流 (ISAT) 中選取一個最小值作為額定電流
Choose a minimum of IRMS and ISAT as the rated current
- ◎ 務必考慮最終的產品設計，元器件佈局，線路板走線，以及使用環境過程中，電感最終溫度不得超過105°C
The operating temperature of inductance do not exceed 105°C
- ◎ 使用電感時，請查閱第13頁注意事項
The announcements is on page 14

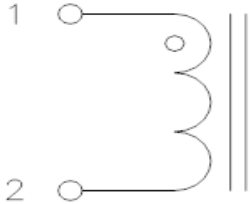


特性 CHARACTERISTICS



| | | | |
|----------------|---------------------|-------------------------|--------------------|
| 產品編碼 P/N | PSPCAQ32~105 series | 測試設備 TEST INSTRUMENT | Chroma: 3302 16502 |
| 產品系列 Series | 贴片非屏蔽功率电感 | 測試頻率 TEST FREQUENCY | 100KHZ / 0.25V |

電路結構 Connections



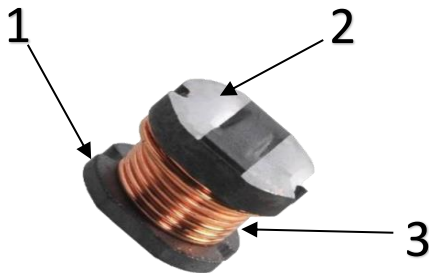
◎ 電感內置一組線圈
Inductor Contents one (1) Set(s) of Coil

印字方式 Marking



◎ 产品顶部使用黑色喷码印字
MARKING: black XXX

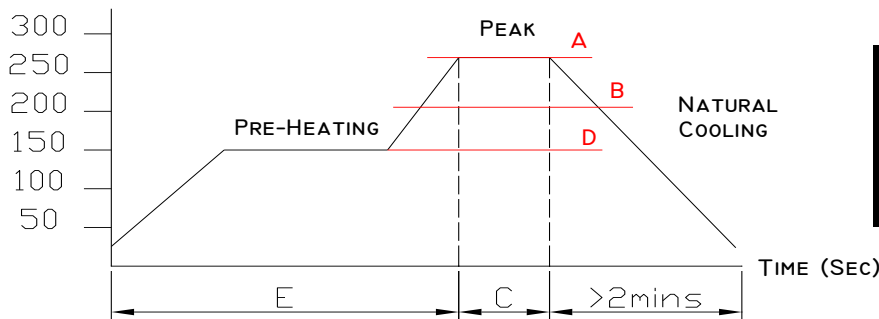
內部構造 Internal Structure



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

焊接溫度（推荐） Recommended Soldering Temperature Graph

TEMPERATURE (°C)



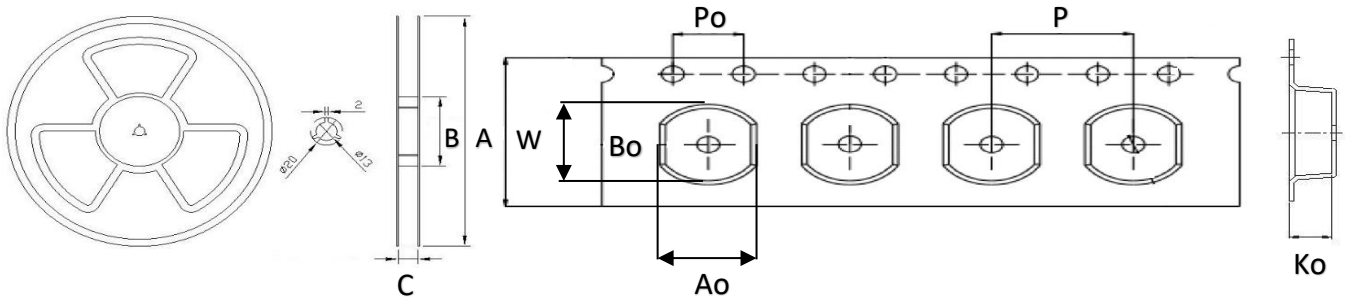
| | |
|---|------------|
| A | 260°C |
| B | 230°C |
| C | 10 Sec |
| D | 150°C |
| E | 60~240 Sec |



| | | | |
|----------------|---------------------|-------------------------|--------------------|
| 產品編碼 P/N | PSPCAQ32~105 series | 測試設備 TEST INSTRUMENT | Chroma: 3302 16502 |
| 產品系列 Series | 贴片非屏蔽功率电感 | 測試頻率 TEST FREQUENCY | 100KHZ / 0.25V |

載帶卷盤尺寸 : (mm)

Packing Dimension



| 系列 Series | A | B | C | W | P | Po | Ao | Bo | Ko |
|--------------|-----|-----|------|----|----|----|----------|----------|----------|
| CD32 | 330 | 100 | 12.5 | 12 | 8 | 4 | 3.2 Typ | 3.6 Typ | 2.3 Typ |
| CD43 | 330 | 100 | 12.5 | 12 | 8 | 4 | 4.0 Typ | 4.6 Typ | 3.6 Typ |
| CD53 | 330 | 100 | 12.5 | 12 | 8 | 4 | 5.5 Typ | 5.95 Typ | 3.3 Typ |
| CD54 | 330 | 100 | 12.5 | 12 | 8 | 4 | 5.5 Typ | 5.95 Typ | 4.8 Typ |
| CD75 | 330 | 100 | 16.5 | 16 | 12 | 4 | 7.35 Typ | 8.05 Typ | 5.45 Typ |
| CD105 | 330 | 100 | 16.5 | 24 | 12 | 4 | 9.4 Typ | 10.35Typ | 5.6 Typ |



| | | | |
|----------------|---------------------|-------------------------|--------------------|
| 產品編碼 P/N | PSPCAQ32~105 series | 測試設備 TEST INSTRUMENT | Chroma: 3302 16502 |
| 產品系列 Series | 贴片非屏蔽功率电感 | 測試頻率 TEST FREQUENCY | 100KHZ / 0.25V |

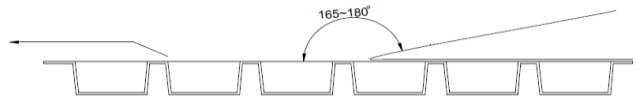
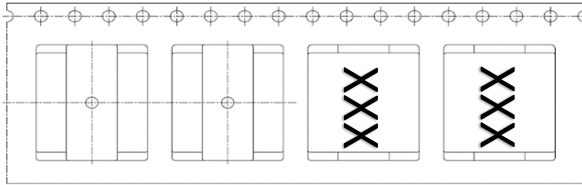
載帶內產品排列方式:
Inductance Packing Method

載帶剝離力:
Typical Pulling Force

尾字對孔

The last mark is on the side of the gear hole

20~120 gf

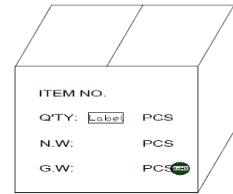
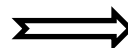
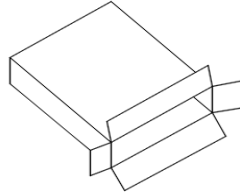
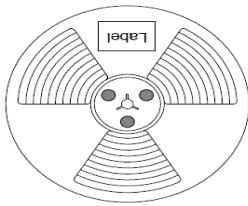


裝箱數量:
Package Quantity

卷盘
MPQ

内盒
Middle box

外箱
Outer box



| 系列 Series | 卷盘 MPQ | 内盒 Middle box | 外箱 Outer box |
|--------------|-----------|------------------|-----------------|
| CD32 | 3000pcs | 9000pcs | 27000pcs |
| CD43 | 2000pcs | 6000pcs | 18000pcs |
| CD53 | 2000pcs | 6000pcs | 18000pcs |
| CD54 | 1500pcs | 4500pcs | 13500pcs |
| CD75 | 1000pcs | 3000pcs | 9000pcs |
| CD105 | 1000pcs | 3000pcs | 9000pcs |





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.
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- | | |
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| 6 Explosive ignition control equipment | |
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