

Feature (特性)

- High power in standard size
标准尺寸，高功率
- Suitable for both wave & re-flow soldering
适合波峰焊与回流焊
- Application: AV adapters, LCD back-light, camera strobe etc. 适用于AV适配器, LCD背光电路, 照相机快门等

Figures (型状)



Derating Curve & Specification (降功率曲线及性能)



| Type 类型 | L(mm) | W(mm) | H(mm) | A(mm) | B(mm) |
|-------------|-----------|--|-----------|-----------|-----------|
| HP02 (0402) | 1.00±0.10 | 0.50±0.05 | 0.35±0.05 | 0.20±0.10 | 0.25±0.10 |
| HP03 (0603) | 1.60±0.10 | 0.80±0.10 | 0.45±0.10 | 0.30±0.20 | 0.30±0.20 |
| HP05 (0805) | 2.00±0.15 | 1.25 ^{+0.15} _{-0.10} | 0.55±0.10 | 0.40±0.20 | 0.40±0.20 |
| HP06 (1206) | 3.10±0.15 | 1.55 ^{+0.15} _{-0.10} | 0.55±0.10 | 0.45±0.20 | 0.45±0.20 |
| HP07 (1210) | 3.10±0.10 | 2.60±0.20 | 0.55±0.10 | 0.50±0.25 | 0.50±0.20 |
| HP10 (2010) | 5.00±0.10 | 2.50±0.20 | 0.55±0.10 | 0.60±0.25 | 0.50±0.20 |
| HP11 (1812) | 4.50±0.20 | 3.20±0.20 | 0.55±0.20 | 0.50±0.20 | 0.50±0.20 |
| HP12 (2512) | 6.35±0.10 | 3.20±0.20 | 0.55±0.10 | 0.60±0.25 | 0.50±0.20 |
| SP12 (2512) | 6.35±0.10 | 3.20±0.15 | 1.10±0.10 | 0.60±0.25 | 1.80±0.20 |

*Special offered 特别提供 : HP12 B:1.80±0.25mm

| Type 类型 | Size 尺寸 | Power Rating at 70°C 功率 | Resistance Range of 1% & 5% 1% & 5% 的阻值范围 | Max. Working Voltage 最大工作电压 | Max. Overload Voltage 最大过负荷电压 | Dielectric Withstanding Voltage 绝缘耐压 | Operating Temperature 工作温度范围 |
|---------|-------------|-------------------------|---|-----------------------------|-------------------------------|--------------------------------------|------------------------------|
| HP02 | 0402 (1005) | 1/10W | 1Ω~10M 0Ω | 50V | 100V Rmax=10mΩ, Imax=3A | 100V | -55°C~155°C |
| HP03 | 0603 (1608) | 1/5W | 0.1Ω~10M 0Ω | 75V | 150V Rmax=8mΩ, Imax=5A | 300V | -55°C~155°C |
| HP05 | 0805 (2012) | 1/3W | 10mΩ~10M 0Ω | 150V | 300V Rmax=5mΩ, Imax=6A | 500V | -55°C~155°C |
| HP06 | 1206 (3216) | 1/2W | 10mΩ~10M 0Ω | 200V | 400V Rmax=5mΩ, Imax=10A | 500V | -55°C~155°C |
| HP07 | 1210 (3225) | 3/4W | 0.1Ω~10M 0Ω | 200V | 500V Rmax=4mΩ, Imax=12A | 500V | -55°C~155°C |
| HP10 | 2010 (5025) | 1W | 10mΩ~10M 0Ω | 200V | 500V Rmax=5mΩ, Imax=12A | 500V | -55°C~155°C |
| HP11 | 1812 (4532) | 1.25W | 0.1Ω~10M 0Ω | 200V | 500V Rmax=5mΩ, Imax=12A | 500V | -55°C~155°C |
| HP12 | 2512 (6432) | 2W | 10mΩ~10M 0Ω | 250V | 500V Rmax=5mΩ, Imax=16A | 500V | -55°C~155°C |
| SP12 | 2512 (6432) | 3W | 1Ω~10M | 250V | 500V | 500V | -55°C~155°C |

Performance Specifications (性能)

| | | | | | |
|---|---------------------------------|--|-------------------------------|--------|--|
| Temperature coefficient | 温度系数 | HP02: $1\Omega \leq R \leq 10\Omega$: ± 400 ppm/ $^{\circ}\text{C}$ $10\Omega < R \leq 100\Omega$: ± 200 ppm/ $^{\circ}\text{C}$ $100\Omega < R \leq 10\text{M}$: ± 100 ppm/ $^{\circ}\text{C}$ | Short-time overload 短时间过负荷 | 短时间过负荷 | $\pm 5\%$: $\pm(2.0\% + 0.1\Omega)$ Max.(最大) $\pm 1\%$: $\pm(1.0\% + 0.1\Omega)$ Max.(最大) |
| | | HP03: $0.1\Omega \leq R < 0.2\Omega$: ± 200 ppm/ $^{\circ}\text{C}$ $0.2\Omega \leq R \leq 10\text{M}$: ± 100 ppm/ $^{\circ}\text{C}$ | | | Dielectric withstanding voltage 绝缘耐压 |
| HP05: $10\text{m}\Omega \leq R \leq 15\text{m}\Omega$: ± 800 ppm/ $^{\circ}\text{C}$ $15\text{m}\Omega < R \leq 25\text{m}\Omega$: ± 600 ppm/ $^{\circ}\text{C}$ $25\text{m}\Omega < R \leq 50\text{m}\Omega$: ± 400 ppm/ $^{\circ}\text{C}$ $50\text{m}\Omega < R < 0.1\Omega$: ± 200 ppm/ $^{\circ}\text{C}$ $0.1\Omega \leq R \leq 10\text{M}$: ± 100 ppm/ $^{\circ}\text{C}$ | Terminal bending 端子弯曲 | $\pm(1.0\% + 0.05\Omega)$ Max.(最大) | | | |
| HP06: $10\text{m}\Omega \leq R < 15\text{m}\Omega$: ± 700 ppm/ $^{\circ}\text{C}$ $15\text{m}\Omega \leq R < 30\text{m}\Omega$: ± 400 ppm/ $^{\circ}\text{C}$ $30\text{m}\Omega \leq R < 50\text{m}\Omega$: ± 300 ppm/ $^{\circ}\text{C}$ $50\text{m}\Omega \leq R < 0.1\Omega$: ± 150 ppm/ $^{\circ}\text{C}$ $0.1\Omega \leq R \leq 10\text{M}$: ± 100 ppm/ $^{\circ}\text{C}$ | Soldering heat 耐焊接热 | $\pm(1.0\% + 0.05\Omega)$ Max.(最大) | | | |
| HP07, HP11, SP12: ± 100 ppm/ $^{\circ}\text{C}$ | Solderability 可焊性 | Min. 95% Coverage (最少 95% 覆盖率) | | | |
| HP10: $10\text{m}\Omega \leq R < 15\text{m}\Omega$: $0 \sim +800$ ppm/ $^{\circ}\text{C}$ $15\text{m}\Omega \leq R < 50\text{m}\Omega$: $0 \sim +600$ ppm/ $^{\circ}\text{C}$ $50\text{m}\Omega \leq R < 10\text{M}$: ± 100 ppm/ $^{\circ}\text{C}$ | Temperature cycling 温度循环 | $\pm 5\%$: $\pm(1.0\% + 0.05\Omega)$ Max.(最大) $\pm 1\%$: $\pm(0.5\% + 0.05\Omega)$ Max.(最大) | | | |
| HP12: $10\text{m}\Omega \leq R < 20\text{m}\Omega$: $0 \sim +800$ ppm/ $^{\circ}\text{C}$ $20\text{m}\Omega \leq R \leq 50\text{m}\Omega$: $0 \sim +400$ ppm/ $^{\circ}\text{C}$ $50\text{m}\Omega < R \leq 10\text{M}$: ± 75 ppm/ $^{\circ}\text{C}$ | Humidity (Steady state) 恒定湿热 | $\pm 5\%$: $\pm(3.0\% + 0.1\Omega)$ Max.(最大) $\pm 1\%$: $\pm(0.5\% + 0.1\Omega)$ Max.(最大) | | | |
| | Load life in humidity 湿度寿命 | $\pm 5\%$: $\pm(3.0\% + 0.1\Omega)$ Max.(最大) $\pm 1\%$: $\pm(1.0\% + 0.1\Omega)$ Max.(最大) | | | |
| | Load life 负载寿命 | $\pm 5\%$: $\pm(3.0\% + 0.1\Omega)$ Max.(最大) $\pm 1\%$: $\pm(1.0\% + 0.1\Omega)$ Max.(最大) | | | |

Ordering Procedure (Example: High Power HP06 1/2W 5% 120K Ω T/R-5000)

订购方式 (例如: 高功率 HP06 1/2W 5% 120K Ω T/R-5000)



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