

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	<p>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/$^{\circ}\text{C}$</p> <p>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/$^{\circ}\text{C}$</p> <p>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/$^{\circ}\text{C}$</p> <p>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/$^{\circ}\text{C}$</p> <p>HP07, HP11, SP12: ± 100 ppm/$^{\circ}\text{C}$</p> <p>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/$^{\circ}\text{C}$</p> <p>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/$^{\circ}\text{C}$</p>
Short-time overload	短时间过负荷	<p>$\pm 5\%$: $\pm(2.0\% + 0.1\Omega)$ Max.(最大) $\pm 1\%$: $\pm(1.0\% + 0.1\Omega)$ Max.(最大)</p>
Dielectric withstanding voltage	绝缘耐压	No Evidence of flashover, mechanical damage, arcing or insulation breakdown 无击穿, 飞弧及可见机械性损伤
Terminal bending	端子弯曲	$\pm(1.0\% + 0.05\Omega)$ Max.(最大)
Soldering heat	耐焊接热	$\pm(1.0\% + 0.05\Omega)$ Max.(最大)
Solderability	可焊性	Min. 95% Coverage (最少 95% 覆盖率)
Temperature cycling	温度循环	<p>$\pm 5\%$: $\pm(1.0\% + 0.05\Omega)$ Max.(最大) $\pm 1\%$: $\pm(0.5\% + 0.05\Omega)$ Max.(最大)</p>
Humidity (Steady state)	恒定湿热	<p>$\pm 5\%$: $\pm(3.0\% + 0.1\Omega)$ Max.(最大) $\pm 1\%$: $\pm(0.5\% + 0.1\Omega)$ Max.(最大)</p>
Load life in humidity	湿度寿命	<p>$\pm 5\%$: $\pm(3.0\% + 0.1\Omega)$ Max.(最大) $\pm 1\%$: $\pm(1.0\% + 0.1\Omega)$ Max.(最大)</p>
Load life	负载寿命	<p>$\pm 5\%$: $\pm(3.0\% + 0.1\Omega)$ Max.(最大) $\pm 1\%$: $\pm(1.0\% + 0.1\Omega)$ Max.(最大)</p>

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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