



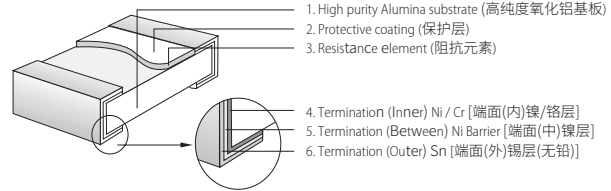
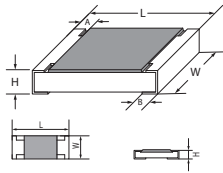
**THE DATASHEET OF
LRC-LR2512LF-01-R500-F**



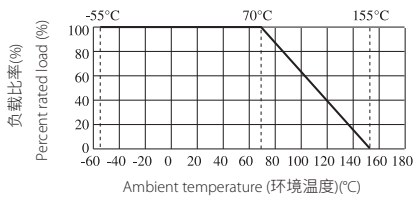
Feature (特性)

- 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
- AEC-Q200 Qualified

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

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

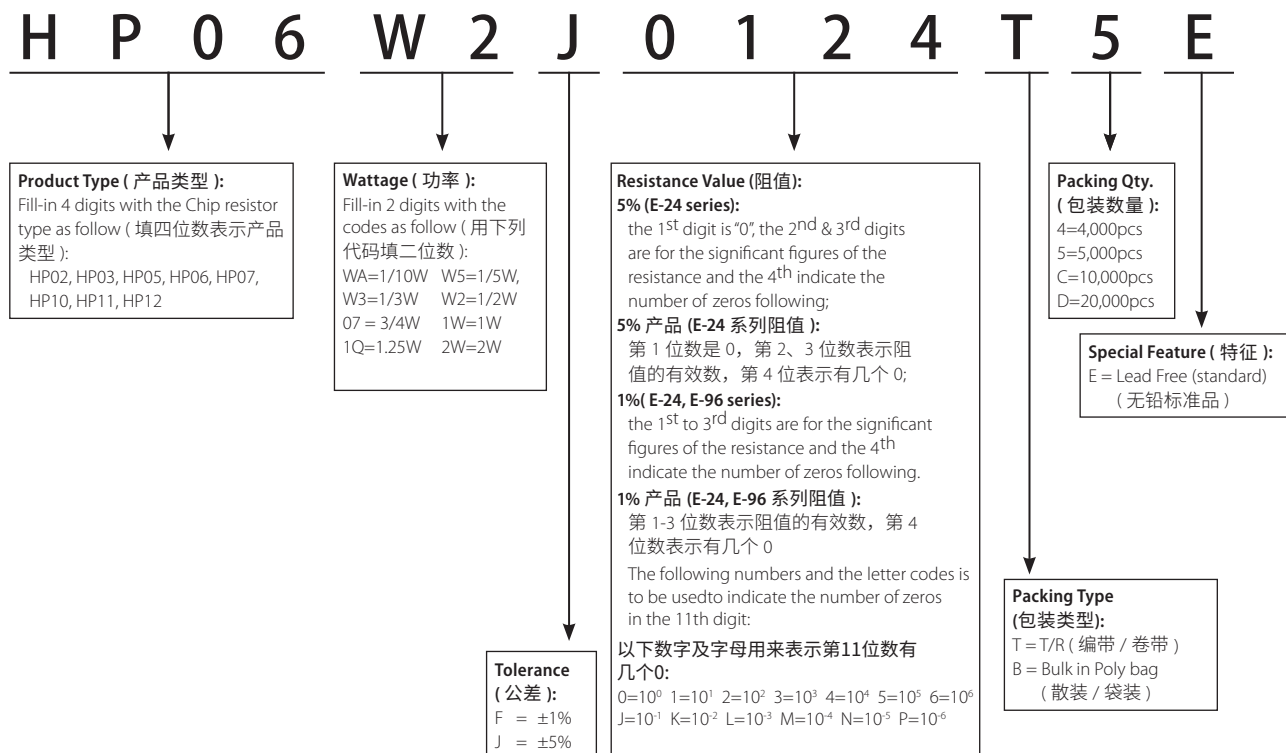
Type 类型	Size 尺寸	Power Rating 额定功率	Resistance Range of 1% & 5% 1% & 5% 的阻值范围	Max. Working Voltage/Current 最大工作电压/电流	Max. Overload Voltage/Current 最大过负荷电压/电流	Dielectric Withstanding Voltage 绝缘耐压	Operating Temperature 工作温度范围
HP02	0402	1/10W	1Ω~10M 0Ω(≤10mΩ)	50V 3A	100V 6A	100V	-55°C~155°C
HP03	0603	1/5W	0.1Ω~10M 0Ω(≤8mΩ)	75V 5A	150V 10A	300V	-55°C~155°C
HP05	0805	1/3W	0.01Ω~10M 0Ω(≤5mΩ)	150V 6A	300V 12A	500V	-55°C~155°C
HP06	1206	1/2W	0.01Ω~10M 0Ω(≤5mΩ)	200V 10A	400V 20A	500V	-55°C~155°C
HP07	1210	3/4W	0.1Ω~10M 0Ω(≤4mΩ)	200V 12A	500V 24A	500V	-55°C~155°C
HP10	2010	1W	0.01Ω~10M 0Ω(≤5mΩ)	200V 12A	500V 24A	500V	-55°C~155°C
HP11	1812	1.25W	0.1Ω~10M 0Ω(≤5mΩ)	200V 12A	500V 24A	500V	-55°C~155°C
HP12	2512	2W	0.01Ω~10M 0Ω(≤5mΩ)	300V 16A	500V 32A	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	$\pm 5\%$: $\pm(2.0\% + 0.1\Omega)$ $\pm 1\%$: $\pm(1.0\% + 0.1\Omega)$																							
		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	No Evidence of flashover, mechanical damage, arcing or insulation breakdown 无击穿, 飞弧及可见机械性损伤																					
		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	$\pm(1.0\% + 0.05\Omega)$																		
		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	$\pm(1.0\% + 0.05\Omega)$															
		HP07, HP11: ± 100 ppm/ $^{\circ}\text{C}$												Solderability	可焊性	Coverage must be over 95%.												
		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/ $^{\circ}\text{C}$															Rapid change of temperature	温度快速变化	$\pm 5\%$: $\pm(1.0\% + 0.05\Omega)$ $\pm 1\%$: $\pm(0.5\% + 0.05\Omega)$									
		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/ $^{\circ}\text{C}$ $50\text{m}\Omega < R \leq 10\text{M}$: ± 100 ppm/ $^{\circ}\text{C}$																		Humidity (Steady state)	恒定湿热	$\pm 5\%$: $\pm(3.0\% + 0.1\Omega)$ $\pm 1\%$: $\pm(0.5\% + 0.1\Omega)$						
																							Load life in humidity	湿度寿命	$\pm 5\%$: $\pm(3.0\% + 0.1\Omega)$ $\pm 1\%$: $\pm(1.0\% + 0.1\Omega)$			
																										Load life	负载寿命	$\pm 5\%$: $\pm(3.0\% + 0.1\Omega)$ $\pm 1\%$: $\pm(1.0\% + 0.1\Omega)$

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)



Remark: For more details, please check page 152, Part No. System. 注: 更多细节详见 P152 标准料号系统。

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

-  [View LRC-LR2512LF-01-R500-F on WIN SOURCE](#)
-  [IRC - a TT electronics Company. Information](#)

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