

# Extra - High Power Thick Film Chip Resistors



**SP12 (2512) 3W**  
Patent # : I566261

## Features :

- High Power up to 3W in 2512 size
- Suitable for both wave & reflow soldering
- RoHS Compliant

## Applications :

- Telecommunication Equipment
- Computer, Digital Cameras
- Lighting converter
- LCD back light
- Power supply

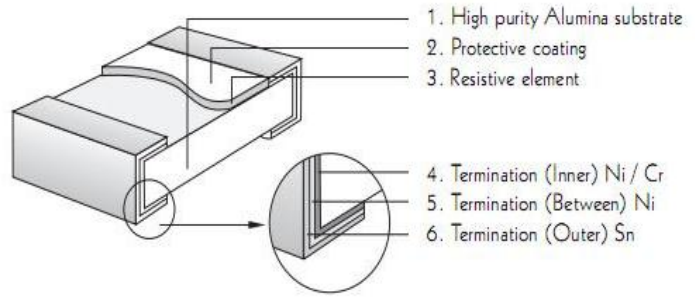
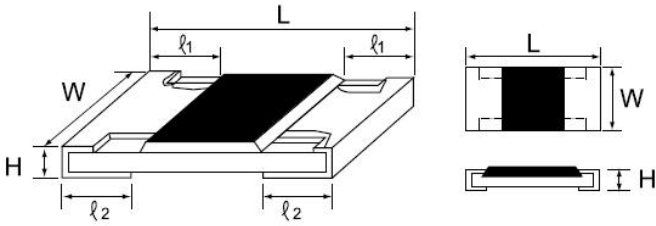


**ISO / TS 16949**  
**ISO 14001**

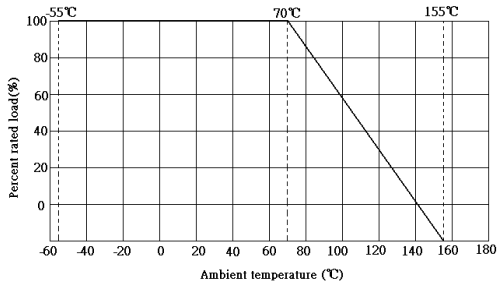
# Extra - High Power Thick Film Chip Resistors

## 2512 up to 3W

### Dimension

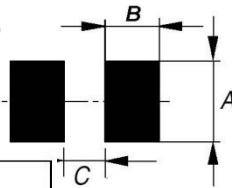


### Derating Curve

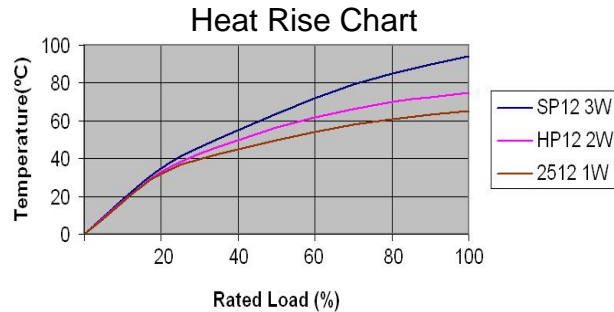


Type	Max Working Voltage	Max Overload Voltage	Dielectric Withstanding Voltage	Operating Temperature Range
SP12	250V	500V	500V	-55~+155°C

### Recommended Solder Pad



Size	A Width (mm)	B Pad (mm)	C Spacing (mm)
HP12 2W	3.70	2.45	2.70
SP12 3W	3.70	2.45	2.70



Type	Power (70°C)	L (mm)	W (mm)	H (mm)	l1 (mm)	l2 (mm)	Resistance Range 1%(E96) · 5%(E24)
SP12	3W	6.35±0.10	3.20±0.15	1.10±0.10	0.60±0.25	1.80±0.20	1Ω~10M

### Characteristic

Test Item	Standard	Test Item	Standard
Temperature Coefficient	1Ω ~ 10Ω: ≤±200ppm/°C 11Ω ~ 10MΩ: ≤±100ppm/°C	Temperature Cycling	±1%: ±(0.5%+0.05Ω) Max ±5%: ±(1.0%+0.05Ω) Max
Short Time Overload	±1%:±(1.0%+0.1Ω)Max ±5%:±(2.0%+0.1Ω)Max	Humidity (Steady State)	±1%: ±(0.5%+0.1Ω) Max ±5%: ±(3.0%+0.1Ω) Max
Terminal Bending	±(1.0%+0.05Ω)Max	Load Life in Humidity	±1%: ±(1.0%+0.1Ω) Max ±5%: ±(3.0%+0.1Ω) Max
Solderability	Min. 95%coverage	Load Life	±1%: ±(1.0%+0.1Ω) Max ±5%: ±(3.0%+0.1Ω) Max
Resistance to Soldering Heat	±(1.0%+0.05Ω) Max		

