

High Power Thick Film Chip Resistors

Performance Specification

Temperature Coefficient HP02 : $1\Omega \sim 10\Omega$ ± 400 PPM/ $^{\circ}$ C

10.1 Ω ~100 Ω \pm 200PPM/°C

 $>100\Omega$ \pm 100PPM/°C

HP03~ HP12, SP12 : $1\Omega \sim 10\Omega$ $\leq \pm 200$ PPM/ $^{\circ}$ C

 $10.1\Omega \sim 10M\Omega \leq \pm 100PPM/^{\circ}C$

Short Time Overload $\pm 5\%$: $\pm (2.0\% + 0.1\Omega)$ Max

 $\pm 1\%$: $\pm (1.0\% + 0.1Ω)$ Max

Terminal Bending $\pm (1.0\% + 0.05\Omega)$ Max Soldering Heat $\pm (1.0\% + 0.05\Omega)$ Max Solderability Min. 95% coverage. Humidity (Steady State) $\pm 5\%$: $\pm (3.0\% + 0.1\Omega)$ Max

±1%: ±(0.5% + 0.1Ω)Max

Load Life in Humidity ±5%: ±(3.0% + 0.1Ω)Max

 \pm 1%: \pm (1.0% + 0.1Ω)Max

Load Life $\pm 5\%$: $\pm (3.0\% + 0.1\Omega)$ Max

 $\pm 1\%$: $\pm (1.0\% + 0.1\Omega)$ Max

Temperature Cycling $\pm 5\%$: $\pm (1.0\% + 0.05\Omega)$ Max

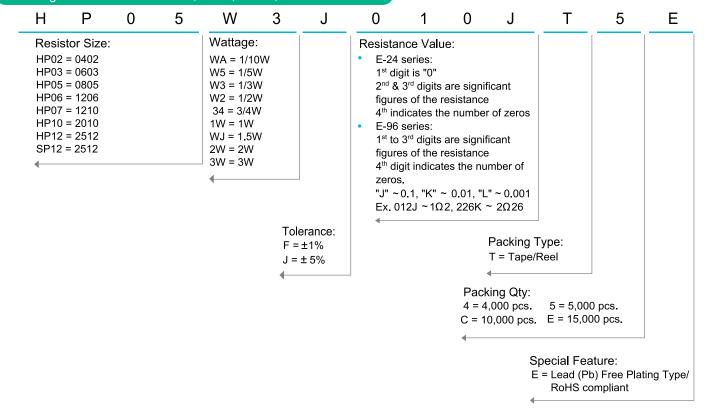
 \pm 1%: \pm (0.5% + 0.05Ω)Max

Insulation Resistance Min. 1,000 Mega Ohm

Dielectric Withstanding Voltage
No evidence of flashover, mechanical damage, arcing or insulation

breakdown.

Ordering Procedure: Ex.: HP05, 1/3W, +/-5%, 1Ω T/R-5000



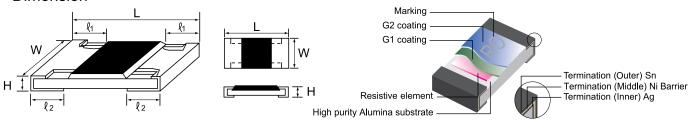


High Power Thick Film Chip Resistors

Features

- · High power in standard size
- Suitable for both wave and reflow soldering
- · Application: AV adapters, LCD back light, Camera strobe

Dimension



Туре	Power Rating at 70 ^o C	Max Working Voltage	Max Overload Voltage	Dielectric Withstanding Voltage	Tol %	Resistance Range	Dimension (mm)					
							L	W	Н	ℓ 1	l2	
HP02 (0402)	1/10W	50V	100V	100V	±1% ±5%	1 Ω ~10M Ω 1 Ω ~10M Ω	1.00±0.10	0.50±0.05	0.35±0.05	0.20±0.10	0.25±0.10	
HP03 (0603)	1/5W	50V	100V	300V	±1% ±5%	1 Ω ~10M Ω 1 Ω ~10M Ω	1.60±0.10	0.80 ^{+0.15}	0.45±0.10	0.30±0.20	0.30±0.20	
HP05 (0805)	1/3W	150V	300V	500V	±1% ±5%	1 Ω ~10M Ω 1 Ω ~10M Ω	2.00±0.15	+0.15 1.25 - 0.10	0.55±0.10	0.40±0.20	0.40±0.20	
HP06 (1206)	1/2W	200V	400V	500V	±1% ±5%	1Ω ~ $10M\Omega$ 1Ω ~ $10M\Omega$	3.10±0.15	1.55 ^{+0.15} - 0.10	0.55±0.10	0.45±0.20	0.45±0.20	
HP07 (1210)	3/4W	200V	500V	500V	±1% ±5%	1 Ω ~10M Ω 1 Ω ~10M Ω	3.10±0.10	2.60 ^{+0.15} 0.10	0.55±0.10	0.50±0.20	0.50±0.20	
HP10 (2010)	1W	200V	500V	500V	±1% ±5%	1 Ω ~10M Ω 1 Ω ~10M Ω	5.00±0.10	2.50 ± 0.15	0.55±0.10	0.60±0.25	0.50±0.20	
HP12 (2512)	2W	250V	500V	500V	±1% ±5%	1 Ω ~10M Ω 1 Ω ~10M Ω	6.35±0.10	3.20±0.15	0.55±0.10	0.60±0.25	0.50±0.20	

Note

- 1.) Standard Operating Temp ($^{\circ}$ C): -55 -+155 2.) Standard : E-96 series : 1% & E-24 series : 5%
- 2.) HP12 $\ 1\Omega \sim 10M \ \Omega \$ Low TCR available case by case on basis.
- 3.) HP low resistance range : $0.1\Omega\sim 1\Omega$ available, TCR for HP03, HP05 at +/-200ppm°C, HP06 $^{\sim}$ HP12 at +/-100ppm°C, Electrical performance same as above.

Extra High Power Thick Film Chip Resistors

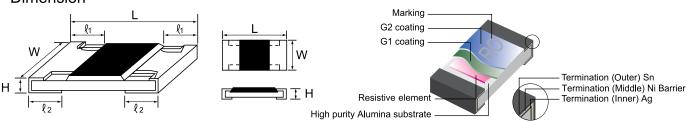
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Recommended solder pad | Size | A B C | Woden (mmn) | Pad (mmn) | Spacing (mm

- 4 layers PCB specification:
- 1) Outside 2 layers (Top and Bottom) with copper foil thickness at 2oz.
- 2) Inside 2 layers (Middle layers) with copper foil thickness at 4 oz.

Dimension



Туре	Power Rating at 70°C	Max Working Voltage	Max Overload Voltage	Dielectric Withstanding Voltage		Resistance Range	Dimension (mm)				
							L	W	Н	ℓ 1	ℓ2
SP12 (2512)	3W	250V	500V	500V	±1% ±5%	1 Ω ~10M Ω 1 Ω ~10M Ω	6.35±0.10	3.20±0.15	1.10±0.10	0.60 ±0.25	1.80±0.20



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