

# High Power Thick Film Chip Resistors

## Performance Specification

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

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

H	P	0	5	W	3	J	0	1	0	J	T	5	E		
Resistor Size: HP02 = 0402 HP03 = 0603 HP05 = 0805 HP06 = 1206 HP10 = 2010				Wattage: WA = 1/10W W5 = 1/5W W3 = 1/3W W2 = 1/2W 1W = 1W		Resistance Value: <ul style="list-style-type: none"><li>E-24 series: 1<sup>st</sup> digit is "0" 2<sup>nd</sup> &amp; 3<sup>rd</sup> digits are significant figures of the resistance 4<sup>th</sup> indicates the number of zeros</li><li>E-96 series: 1<sup>st</sup> to 3<sup>rd</sup> digits are significant figures of the resistance 4<sup>th</sup> digit indicates the number of zeros. "J" ~ 0.1, "K" ~ 0.01, "L" ~ 0.001 Ex. 012J ~ 1Ω2, 226K ~ 2Ω26</li></ul>		Tolerance: F = ±1% J = ±5%		Packing Type: T = Tape/Reel		Packing Qty: 4 = 4,000 pcs.    5 = 5,000 pcs.		Special Feature: E = Lead (Pb) Free Plating Type/ RoHS compliant	

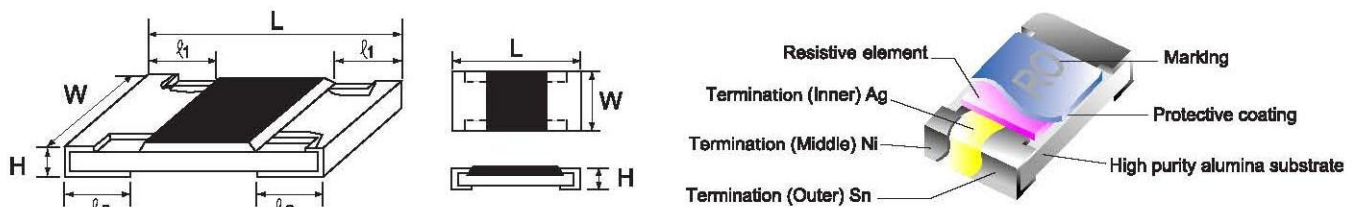
Features

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Suitable for both wave and reflow soldering  
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## Dimension



Type	Power Rating at 70°C	Max Working Voltage	Max Overload Voltage	Dielectric Withstanding Voltage	Tolerance %	Resistance Range	Dimension (mm)				
							L	W	H	l <sub>1</sub>	l <sub>2</sub>
HP02 (0402)	1/10W	50V	100V	100V	±1% ±5%	1Ω ~ 10MΩ 1Ω ~ 10MΩ	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%	1Ω ~ 10MΩ 1Ω ~ 10MΩ	1.60±0.10	0.80 +0.15 -0.10	0.45±0.10	0.30±0.20	0.30±0.20
HP05 (0805)	1/3W	150V	300V	500V	±1% ±5%	1Ω ~ 10MΩ 1Ω ~ 10MΩ	2.00±0.15	1.25 +0.15 -0.10	0.55±0.10	0.40±0.20	0.40±0.20
HP06 (1206)	1/2W	200V	400V	500V	±1% ±5%	1Ω ~ 10MΩ 1Ω ~ 10MΩ	3.10±0.15	1.55 +0.15 -0.10	0.55±0.10	0.45±0.20	0.45±0.20
HP10 (2010)	1W	200V	400V	500V	±1% ±5%	1Ω ~ 10MΩ 1Ω ~ 10MΩ	5.00±0.10	2.50 +0.15 -0.10	0.55±0.10	0.60±0.25	0.50±0.20