

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
HP07 = 1210
HP10 = 2010
HP12 = 2512

Wattage:

WA = 1/10W
W5 = 1/5W
W3 = 1/3W
W2 = 1/2W
1W = 1W
WJ = 1.5W
2W = 2W
07 = 3/4W-S

Tolerance:

F = ±1%
J = ±5%

Resistance Value:

- E-24 series:
1st digit is "0"
2nd & 3rd digits are significant figures of the resistance
4th indicates the number of zeros
- E-96 series:
1st to 3rd digits are significant figures of the resistance
4th digit indicates the number of zeros.
"J" ~ 0.1, "K" ~ 0.01, "L" ~ 0.001
Ex. 012J ~ 1Ω2, 226K ~ 2Ω26

Packing Type:

T = Tape/Reel

Packing Qty:

4 = 4,000 pcs. 5 = 5,000 pcs

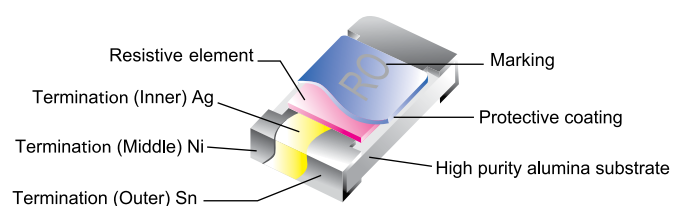
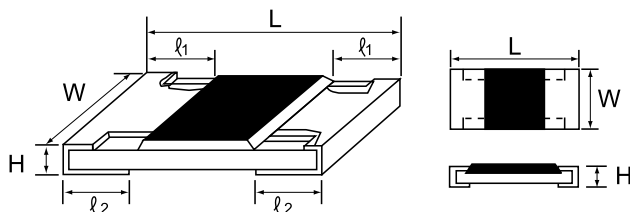
Special Feature:

E = Lead (Pb) Free Plating Type/
RoHS compliant

Features

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

Dimension



Type	Power Rating at 70°C	Max Working Voltage	Max Overload Voltage	Dielectric Withstanding Voltage	Tol. %	Resistance Rang	Dimension (mm)				
							L	W	H	l ₁	l ₂
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
HP07 (1210)	1/2W 3/4W-S	200V	500V	500V	±1% ±5%	1Ω~10MΩ 1Ω~10MΩ	3.10±0.10	2.60 ^{+0.15} -0.10	0.55±0.10	0.50±0.25	0.50±0.20
HP10 (2010)	1W	200V	500V	500V	±1% ±5%	1Ω~10MΩ 1Ω~10MΩ	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%	1Ω~10MΩ 1Ω~10MΩ	6.35±0.10	3.20±0.15	0.55±0.10	0.60±0.25	0.50±0.20

Note:

- Standard Operating Temp (°C): -55 ~ +155, 2.) Standard : E-96 series : 1% & E-24 series : 5%
- HP12 1Ω ~ 10MΩ Low TCR available case by case on basis.