

High-Precision Anti-Surge Thick Film Chip Resistors

Performance Specification

Temperature Coefficient	1Ω ~ 10Ω ±200PPM/°C 11Ω ~ 10MΩ ±100PPM/°C	Humidity (Steady State)	±(3.0% + 0.1Ω)Max
	PS07 : 1Ω ~ 10MΩ ±100PPM/°C	Load Life in Humidity	±5%: ±(3.0% + 0.1Ω)Max ±1%: ±(1.0% + 0.1Ω)Max
Short Time Overload	±5%: ±(2.0% + 0.1Ω)Max ±1%: ±(1.0% + 0.1Ω)Max	Load Life	±5%: ±(3.0% + 0.1Ω)Max ±1%: ±(1.0% + 0.1Ω)Max
Temperature Cycling	±5%: ±(3.0% + 0.1Ω)Max ±1%: ±(0.5% + 0.1Ω)Max	Solderability	Min. 95% coverage.
Terminal Bending	±(1.0% + 0.05Ω)Max	Soldering Heat	±(1.0% + 0.05Ω)Max
Single Pulse	±(1.0% + 0.1Ω)Max	Insulation Resistance	Min. 1,000 Mega Ohm
Dielectric Withstanding Voltage	No evidence of flashover, mechanical damage, arcing or insulation breakdown.		

Ordering Procedure: Ex.: PS05, 1/3W, +/-5%, 1Ω T/R-5000

P S 0 5 W 3 J 0 1 0 J T 5 E

Resistor Size:
PS03 = 0603
PS05 = 0805
PS06 = 1206
PS07 = 1210

Wattage:
W4 = 1/4W
W3 = 1/3W
W2 = 1/2W
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

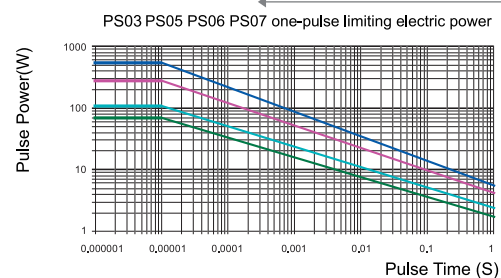
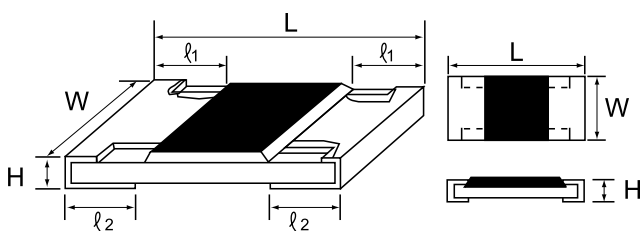
Packing Qty:
5 = 5,000 pcs.

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

Features

- Small size and light weight
- Suitable for both wave and reflow soldering
- Can withstand one-pulse limiting electric power
- Reduction of assembly costs

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 ₁	l ₂
PS03 (0603)	1/4W	50V	100V	300V	±1% ±5%	1Ω~10MΩ	1.60±0.10	0.80±0.10	0.45±0.10	0.30±0.20	0.30±0.20
PS05 (0805)	1/3W	150V	300V	500V		1Ω~10MΩ	2.00±0.15	1.25 ^{+0.15} _{-0.10}	0.55±0.10	0.40±0.20	0.40±0.20
PS06 (1206)	1/2W	200V	400V	500V		1Ω~10MΩ	3.10±0.15	1.55 ^{+0.15} _{-0.10}	0.55±0.10	0.45±0.20	0.45±0.20
PS07 (1210)	3/4W-S	200V	500V	500V		1Ω~10MΩ	3.10±0.10	2.60±0.20	0.55±0.10	0.55±0.25	0.50±0.20

Note:

- Standard Operating Temp (°C) : -55 ~ +155
- Standard : E-96 series : 1%
E-24 series : 5%
- Construction : Same as thick film