

High-Precision Anti-Surge Thick Film Chip Resistors

Performance Specification

Temperature Coefficient	1Ω ~ 10MΩ ± 100PPM/°C	Load Life in Humidity	±5%: ±(3.0% + 0.1Ω)Max
Short Time Overload	±5%: ±(2.0% + 0.1Ω)Max		±1%: ±(1.0% + 0.1Ω)Max
	±1%: ±(1.0% + 0.1Ω)Max	Load Life	±5%: ±(3.0% + 0.1Ω)Max
Temperature Cycling	±5%: ±(3.0% + 0.1Ω)Max		±1%: ±(1.0% + 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
Humidity (Steady State)	±(3.0% + 0.1Ω)Max		
Dielectric Withstanding Voltage	No evidence of flashover, mechanical damage, arcing or insulation breakdown.		

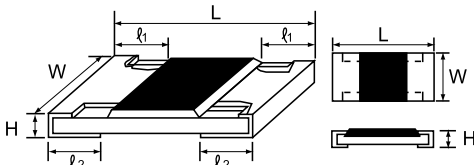
Ordering Procedure: Ex.: PS05, 1/3W, +/-5%, 1Ω T/R-5000

P	S	0	5	W	3	J	0	1	0	J	T	5	E
Resistor Size: PS02 = 0402 PS03 = 0603 PS05 = 0805 PS06 = 1206 PS07 = 1210 PS10 = 2010 PS12 = 2512				Wattage: W8 = 1/8W W4 = 1/4W W3 = 1/3W W2 = 1/2W 07 = 3/4W-S 1Q = 1.25W 2W = 2W		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							

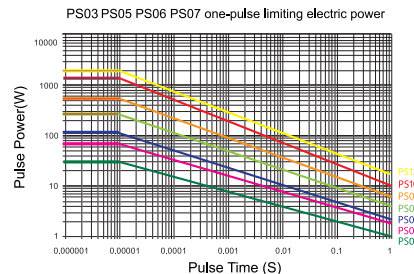
Features

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

Dimension



Tolerance:
F = ±1%
J = ±5%



Packing Type:
T = Tape/Reel

Packing Qty:
5 = 5,000 pcs.

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

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
PS02 (0402)	1/8W	50V	100V	100V	±1% ±5%	1Ω~10MΩ	1.00±0.10	0.50±0.05	0.35±0.05	0.20±0.10	0.25±0.10
PS03 (0603)	1/4W	50V	100V	300V		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
PS10 (2010)	1.25W	400V	800V	500V		1Ω~10MΩ	5.00±0.10	2.50±0.20	0.55±0.10	0.60±0.25	0.50±0.20
PS12 (2512)	2W	500V	1000V	500V		1Ω~10MΩ	6.35±0.10	3.20±0.20	0.55±0.10	0.60±0.25	1.80±0.25

Note:

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