

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	Load Life	±1%: ±(1.0% + 0.1Ω)Max
	±1%: ±(1.0% + 0.1Ω)Max		±5%: ±(3.0% + 0.1Ω)Max
Temperature Cycling	±5%: ±(3.0% + 0.1Ω)Max	Solderability	±1%: ±(1.0% + 0.1Ω)Max
	±1%: ±(0.5% + 0.1Ω)Max	Soldering Heat	Min. 95% coverage.
Terminal Bending	±(1.0% + 0.05Ω)Max	Insulation Resistance	±(1.0% + 0.05Ω)Max
Single Pulse	±(1.0% + 0.1Ω)Max		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.
 "J" ~ 0.1, "K" ~ 0.01, "L" ~ 0.001
 Ex. 012J ~ 1Ω2, 226K ~ 2Ω26

Tolerance:
 F = ±1%
 J = ±5%

Packing Type:
 T = Tape/Reel

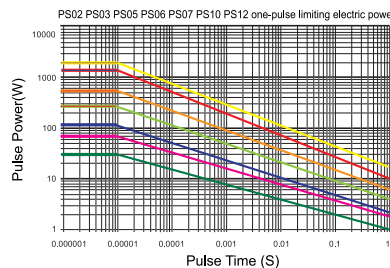
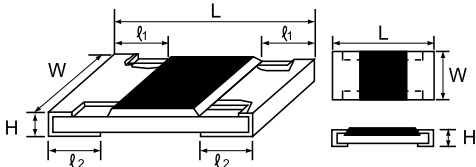
Packing Qty:
 5 = 5,000 pcs.

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

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
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	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