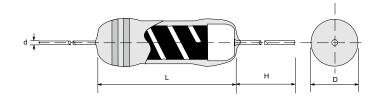


PSR Power Sink Resistor





Specifications Per

- IEC 60115-4
- MIL-11804

Features

- Designed to replace cement resistors
- Reduces assembly cost with feasibility auto insertion
- Enhanced conductive film absorbs pulse noise
- Superior-grade ceramic core dissipates heat efficiently
- Flameproof multi-layer coating equivalent to UL 94 V-0
- Flameproof feature equivalent to overload test UL 1412
- Products meet RoHS requirements and do not contain substances of very high concern identified by European Chemicals Agency

DIMENSIONS

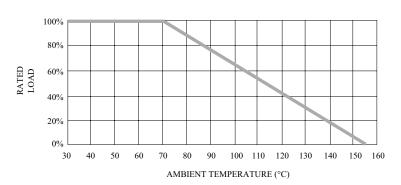
Туре	Type Body Length (L, mm)		Lead Wire Length (H, mm)	Lead Wire Diameter (d, mm)	Net Weight Per 1000 Pcs	
PSR650	24.0 ± 1.0	8.0 ± 0.5	30 ± 3.0	0.8 ± 0.03	3700 Grams	

■ GENERAL SPECIFICATIONS

Туре	Power Rating (at 70°C)	Maximum Working Voltage	Maximum Overload Voltage	Maximum Rermissible Surge Voltage	Minimum Resistance	Maximum Resistance	Resistance Tolerance	Available Resistance Values	
PSR650	6W	550V	1100V	20KV	1Ω	4.7ΜΩ	±5%	E-24	

Special sizes, values, and specifications not listed available on special order.

POWER DERATING CURVE





Power Sink Resistor



PART NUMBER

Example: PSR650J10K0TKZTB400

PSR650	J	10K0	TKZ	TB400	
Туре	Tolerance J (5%)	Resistance	TCR	Packaging	
	J (3%)	4-character code containing - 3 significant digits 1 letter multiplier OHM MULTIPLIER R = 1 K = 10 ³ M = 10 ⁶ G = 10 ⁹	3-character code TKZ = Default Product Temperature Coefficient. Information of typical product temperature coefficient can be found in the Technical Summary section of the datasheet.*	5-character code TB = Tape Box (pieces per box) PSR650 400 = 400	

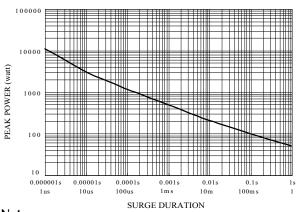
^{*} For the availabilities of non-default temperature coefficient, please check with us. Reference for TCR letter codes can be found in section (4) of Part Number Construction in the Appendices.

■ TECHNICAL SUMMARY

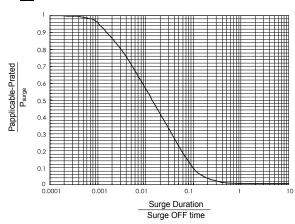
Characteristics	Limits
Dielectric Withstanding Voltage, VAC or DC	1000
Temperature Coefficient, PPM / °C*	±750, ±1200
Operating Temperature Range, °C	-55 ~ +155
Insulation Resistance, MΩ	>104

^{*} Not applicable to all resistance values. Please check with us regarding the PPM of specific resistance value(s).

SINGLE SURGE PERFORMANCE



SURGE POWER DERATING CURVE



Notes:

- SINGLE SURGE PERFORMANCE graph is good for NON REPETITIVE applications operating in an ambient temperature of 70°C or less. For temperatures above 70°C, the graph power must be derated further linearly down to zero at 155°C.
- To determine applicable surge power in continuous-surge applications:
- 1. Identify allowable duration and peak power P_{surge} of single surge;
- 2. Determine ratio of surge duration/surge OFF time in application;
- 3. Calculate Papplicable backwardly according to Y-axis of SURGE POWER DERATING CURVE.



PSR Power Sink Resistor



■ PERFORMANCE SPECIFICATIONS

Characteristics Test Conditions		Limits		
Short Time Over Load	IEC 60115-1 4.13 5 seconds 2.5x rated voltage (not over 2X max. working voltage)	±2	±2%	
Load Life In Humidity	IEC 60115-1 4.24 56 days rated load (not over max. working voltage) at (40±2)°C and (93±3)% relative humidity	±5	.5%	
Load Life	Load Life Load Life Load Life Rated load (not over max. working voltage) 1,000 hours with 1.5 hours ON, 0.5 hours OFF, at (70±2)°C		±5%	
Resistance To Soldering Heat IEC 60115-1 4.18.2 Leads immersed till 3mm from the body in (260±5)°C solder for 10±1 seconds		±1%		
Solderability	IEC 60115-1 4.17.2 Solder area covered after (235±3)°C/(2±0.2) seconds with flux applied	95% min.coverage		
Vibration	IEC 60115-1 4.22 Six hours in each parallel and axial direction with a simple harmonic motion having an amplitude of 0.75mm and 10 to 500 Hz.	•		
Thermal Endurance	C 60115-1 4.25.3 000 hours at 155°C without load		±2%	
Thermal Shock	Thermal Shock IEC 60115-1 4.19 -55°C 30minutes, +155°C 30minutes, 5 cycles		±2%	
Surge Test	Surge voltage = √(1200 x P x R) DC P is power rating, R is resistance value, surge voltage is not more than listed at right. Surge spec = 1.2/50µs Period = 1 sec Number of surges = 50	20KV	5%	

Fax:0755-29796149