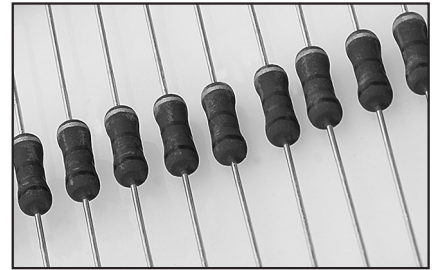


High Voltage Surge Resistors

- Provide high stable performance against environmental conditions and over load voltage.
- Wide resistance range.
 - Resistance and tolerance are indicated as four or five color coding to IEC rules of marking code for resistor.
 - Color coding should be satisfied on the standards and good discernment.



GENERAL SPECIFICATIONS

Model	Rating Power At 70°C	Maximum Working Voltage	Resistance Range	Resistance Tolerance(%)	Safety Approvals	Climatic Category (IEC68)
SUR25	0.25W	350V	Non-Inductive 10Ω~10KΩ / Inductive 10KΩ~10MΩ	±5, ±10, ±20		55/155/56
SUR37	0.5W	700V		±5, ±10, ±20		
SUR68	1W	1000V		±5, ±10, ±15, ±20		

CHARACTERISTICS

Values in [] mean change in Ω after test

		SUR25	SUR37	SUR68
Insulation Resistance	Minimum. More than 10MΩ	350±50VDC for 1minute	500±50VDC for 1minute	700±50VDC for 1minute
Temperature Coefficient	±1000ppm/°C	-55°C 30minutes, +155°C 30minutes		
Short Time Overload	±2.5%	2.5 x Rated power 5seconds on, 45seconds off, 10 cycles		
Rapid Change of Temperature	±2.0%	30minutes -55°C, 30minutes +155°C, 5 cycles		
Damp Heat steady state	±3.0%	40±2°C, 90~95%, 56days after 30minutes dissipation ≤0.01Pn		
Over Load Test	±5.0%	3.5* Rated voltage for 5seconds		
Endurance	±8.0%	70±3°C, 0.5hour on, 0.5hour off, 1000±12hours, Pn or Vmax.		
Vibration	±1.0% No damage	Frequency 10~55Hz Displacement 1.5mm or acceleration 10g Three direction: total 6hours(2hours x 3)		
Solderability	Good tinning No damage 95%	Solderability : 2seconds 235±5°C. Flux 600		
Surge Test	±10% No damage	8KV/10nF (2.5seconds on/off) 10cycles	8KV/10nF (2.5seconds on/off) 10cycles	R ≤ 1KΩ : 8KV/10nF R > 1KΩ : 10KV/10nF 10cycles
Torsion	No damage	2.5kgf remains 5~10seconds		

DIMENSIONS [mm]

Model	D maximum	L maximum	d ±0.05	H ±3
SUR25	2.5	6.5	0.58	26mm
SUR37	3.5	9.0	0.7	26mm
SUR68	5.5	16	0.8	32mm

ORDERING PROCEDURE EXAMPLE

SUR68

↓

Model #

J

↓

Tolerance
J: ±5%
K: ±10%
M: ±20%

XXX

↓

Nominal Resistance

PACKING [mm]

Series	Style	Packing	W	H	L	Packing Unit[pcs]
SUR25	Straight Taping	Inner	78	98	270	5,000
SUR37	Straight Taping	Inner	73	71	260	1,000
SUR68	Straight Taping	Inner	83	71	260	750