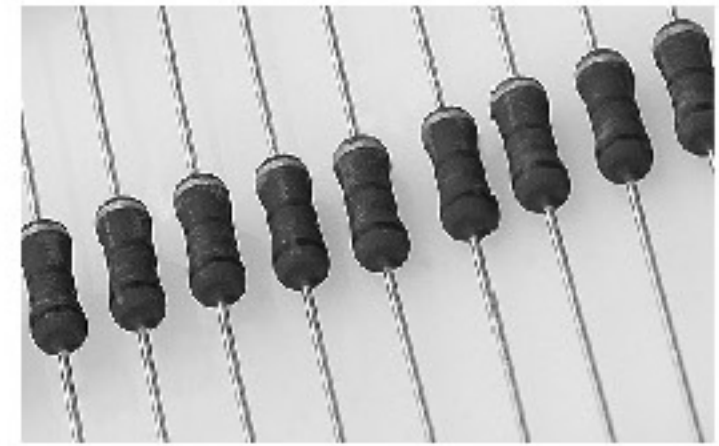


# High Voltage Surge Resistor

## Features and Applications

- 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	Max. Working Voltage	Resistance Range	Resistance Tolerance(%)	Safety Approvals	Climate Category (IEC68)
SUR25	0.25W	350V	Non-Inductive 10Ω~10KΩ / Inductive 10KΩ~10MΩ	±5, ±10, ±20		55/155/56
SUR37	0.5W	700V				
SUR68	1W	1000V		±5, ±10, ±15, ±20		

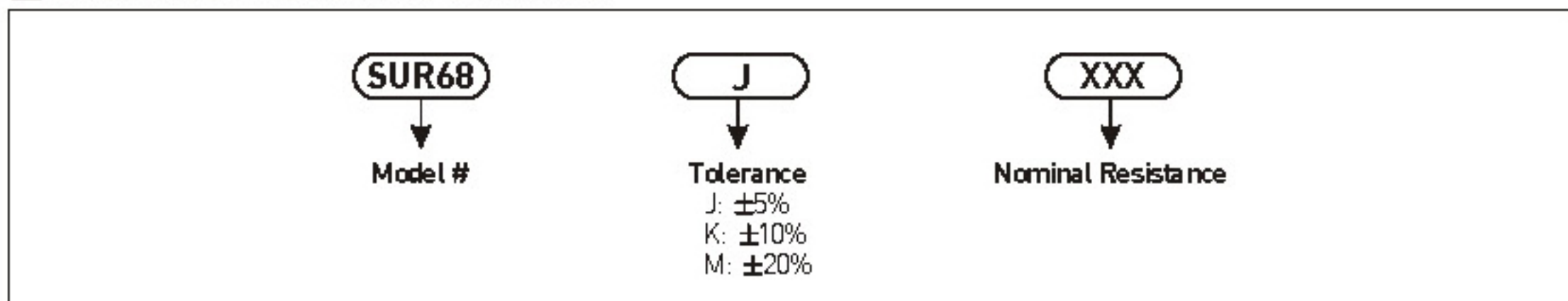
## CHARACTERISTICS

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

## DIMENSIONS (mm)

Model	D max	L max	d+0.02/-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



## PACKING

Series	Style	Packing	W	H	L	Packing Unit
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