

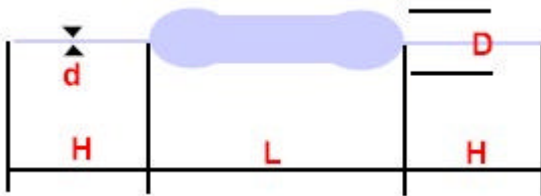
SUR HIGH VOLTAGE SURGE RESISTORS



These resistors provide stable performance in adverse environmental conditions and during overload voltages. A very wide resistance range is available. Resistance marking adheres to IEC colour coding rules. The major application for these is CRT monitors.

GENERAL SPECIFICATIONS

Type	SUR25	SUR37	SUR68
Rated Power at 70C	0.25W	0.5W	1W
Dimensions [mm]	D max	2.5	3.5
	L max	6.5	9.0
	d+0.02, -0.05	0.58	0.7
	H+-3	26mm	26mm
Maximum Working Voltage	350V	700V	1000V
Resistance Range	10R to 10KR Non-Inductive/10KR to 10MR Inductive		
Resistance Tolerance	+-5, +-10, +-20%		+-5,+-10,+-15,+-20%
Safety Approvals	UL, SA	VDE	VDE
Climactic Categories	55/155/56		



CHARACTERISTICS

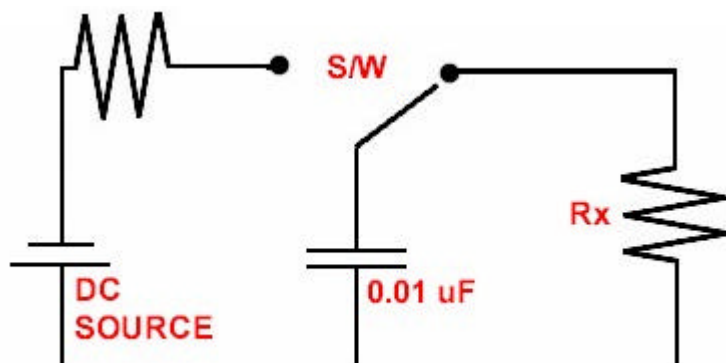
Test Item	Requirement	Procedure		
		SUR25	SUR37	SUR68
Insulation Resistance	10Mohm min.	350+-50VDC, 1min.	500+-50VDC, 1min.	700+-50VDC, 1min.
Temp. Coefficient	+-1000PPM	-55C 30min., +155C 30min.		
Short Time Overload	+-2.5% max.	Rated Voltage X 2.5, 5 sec. on, 45sec. off 10 cycles		
Thermal Shock	+-2.0% max.	-55C 30min., +155C 30min., 5 cycles		
Moisture Resistance	+-3.0% max.	40+-2C, 90-95%RH, 56 days, dissipation less than 0.01Pn		
Overload	+-5.0% max.	Rated Voltage X 3.5, 5 sec.		
Load Life	+-8.0% max.	70+-3C, 0.5h. on, 0.5h. off, 1000+-12h., Pn or Vmax		
Vibration	+-1.0% max.	10-55Mz displacement, 1.5mm accel. 10g, X, Y, Z, 6hr.		
Solderability	95% Coverage	2sec. 235+-5C flux 6000		
Surge	+-10% max.	8KV/10nF, Note1	8KV/10nF, Note2	Note3
Torque	No Damage	2.5Kg f remains 5-10sec.		

Note1: 2.5sec. on/off, 10 cycles

Note2: 2.5sec. on/off, 10 cycles

Note3: R less than: 8KV/10nF; R greater than: 8KV/10nF 10 cycles

HIGH VOLTAGE SURGE TEST



Ten discharges from a 10nF capacitor charged to V_{max} : 12 discharges/min.
 No evidence of flash over, mechanical damage, arcing or insulation breakdown.

ORDERING PROCEDURE EXAMPLE

SURA	242	12	XXX
Product Code	Power Rating 241: 0.25W 242: 0.5W 243: 1W	Tolerance 14: 1% 13: 2% 12: 5% 11: 10%	Nominal Resistance

PACKING

Series	Style	Packing	W	H	L	Packing Unit
SUR25	Straight Taping	Inner	78	98	270	5000
SUR37			73	71	260	1000
SUR68			83	71	260	750