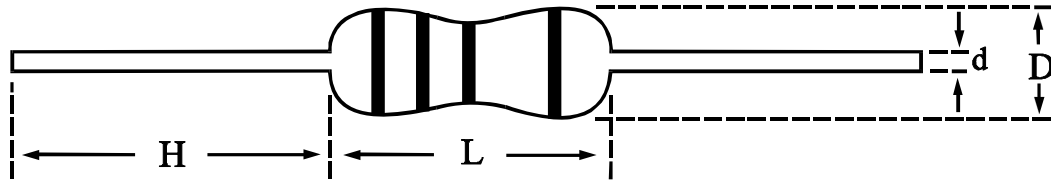


COAT-INSULATED FIXED ANTI-SURGE RESISTORS  
DIMENSIONS



STYLE	DIMENSION(mm)				RESISTANCE RANGE
	L	D	H	d	
SURC1/2W	9.0±0.5	3.2±0.5	26±2.0	0.65±0.03	10Ω~10KΩ (±5%)、(±10%) 3Ω3~9Ω9 (±20%)
SURC1W	11.5±1.0	4.5±0.5	35±2.0	0.78±0.03	
SURC2W	15.5±1.0	5.0±0.5	32±2.0	0.78±0.03	
SURC3W	17.5±1.0	6.5±0.5	35±2.0	0.78±0.03	

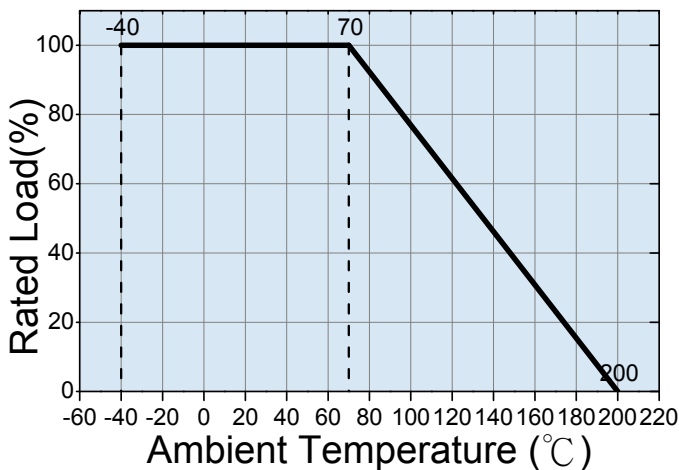
RATING

TYPE	Power Rating	Max Working Voltage..	Max Overload Voltage.	Dielectric Withstanding voltage.	Max Anti Surge	Operating Temp. Range
SURC-1/2W	1/2W	200V	300V	500V	3KV	-40°C to +200°C
SURC-1W	1W	200V	400V	500V	3Ω~6.2Ω=10KV 6.8Ω~10Ω=7KV 11Ω~10KΩ=5KV	
SURC-2W	2W	300V	600V	500V	10KV	
SURC-3W	3W	400V	800V	500V	10KV	

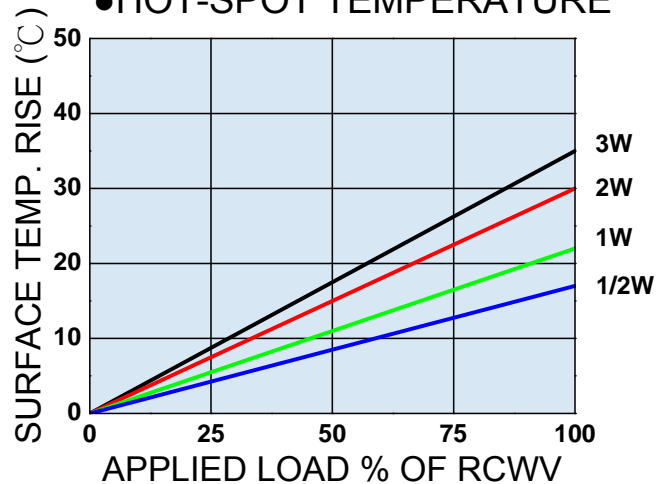
Rated continuous Working Voltage (RCWV) =  $\sqrt{POWER.RATING. * RESISTANCE.VALUE}$

Resistance to anti surge : change shall be ±5% of the per-test values. 1sec. ON, 1second OFF,20,000 cycles.

●POWER GRAPH



●HOT-SPOT TEMPERATURE



**PERFORMANCE SPECIFICATIONS**

TEST ITEMS	Test Methods	SPECIFICATIONS
Short time overload	Rated Voltage X 2.5 or Max. overload Vol., whichever is lower, for 5sec.	± ( 1.0% + 0.05 Ω )
TEMPERATURE COEFFICIENT(T.C.R.)	Resistance value at room Temperature and room Temperature+100°C	±300ppm
Anti Surge characteristics (EN60065 TEST)	Discharge Test : 10KV 1000pf capacitor Discharge Pulse 50 time. (1 pulse / 5sec. max) 	SURC1/2W =3KV SURC1W 3Ω~6Ω=10KV 7Ω~10Ω=7KV 11Ω~10KΩ=5KV SURC2W = 10KV SURC3W = 10KV ± ( 20% + 0.05 Ω )
Resistance to soldering heat	260°C±5°C, 10s±1s or 350°C±10°C, 3.5s±0.5s	± ( 1.0% + 0.05 Ω )
Moisture resistance	40°C±2°C, 90%~95%RH, 1000h 90 min 【ON】 30 min 【OFF】	± ( 5.0% + 0.05 Ω )
Terminal strength	Direct load for 10 sec. In the direction off the terminal leads.	Tensile: ≥2.5kg
Load Life	SURC : 1000hours at rated voltage, 40°C 90 min 【ON】 30 min 【OFF】	± ( 5.0% + 0.05 Ω )

Reference Standards: IEC 60115-1

Storage Temperature: 25±3°C; Humidity < 80%RH

Rated continuous Working Voltage (RCWV) =  $\sqrt{POWER.RATING. * RESISTANCE.VALUE}$

Normal size----- Brown

**● PART NUMBER:**

SURC	1/2W	3K	J	TB
↓	↓	↓	↓	↓
Type	Power rating	Resistance	Tolerance	Packaging
SURC	1/2W	3R3 3.3 Ω	J ± 5%	TB Taping Box
	1W	10R 10 Ω	K ± 10%	TR Taping Reel
	2W	100R 100 Ω	M ± 20%	BU Bulk
	3W	1K 1K Ω		F F-TYPE
		10K 10K Ω		M M-TYPE
				PANA PANA