

# Surge Current Chip Resistor

Hokuriku Electric Industry Co.,Ltd



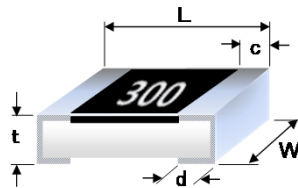
【Model Number】  
SCR\*\*

## 【Features】

- Excellent Surge Durability  
One Pulse Limit Characteristics is 2-times higher than normal type.
- Compared to normal type, rated power is higher.
- Resistance tolerance of ±0.5% is available.
- Reflow, Flow solderings are applicable.
- Europe RoHS compliant product.



## 【Dimensions】



(Unit: mm)

Model No.	L	W	t	c	d
SCR16	1.60±0.15	0.80 +0.20/-0.10	0.50 +0.15/-0.05	0.25±0.20	0.25±0.20
SCR20	2.00 +0.20/-0.10	1.25 +0.20/-0.10	0.50 +0.15/-0.05	0.40±0.20	0.40±0.20
SCR32	3.20 +0.10/-0.15	1.60 +0.10/-0.15	0.55 +0.15/-0.05	0.50±0.20	0.50±0.20
SCR35	3.20 +0.10/-0.15	2.60 +0.10/-0.15	0.55 +0.15/-0.05	0.50±0.20	0.50±0.20
SCR50	5.00±0.15	2.50±0.15	0.56±0.15	0.60±0.25	0.60±0.25
SCR64	6.30±0.15	3.20±0.15	0.56±0.15	0.60±0.25	0.60±0.25

## 【Designation】

**SCR16 - 103 J V**

① Model No.      ② Resistance Value      ③ Resistance Tolerance      ④ Packing Form

Model No.	Size
SCR16	1608
SCR20	2012
SCR32	3216
SCR35	3225
SCR50	5025
SCR64	6432

Marking	Resistance
103	10KΩ
103 = 10 × 10 <sup>3</sup> = 10,000 Ω = 10KΩ	

Symbol	Tolerance
D	±0.5%
F	±1.0%
J	±5.0%

Symbol	Form
V	Paper tape
E	Emboss tape
B	Bulk

## 【Specification】

Model No.	Rated power (W) at 70°C	Tolerance	Range (Ω)	TCR (ppm/°C)	Max. Working Voltage	Max. Overload Voltage
SCR16	0.20	D (±0.5%)	10~1M	±100	50V	100V
		F (±1.0%)				
		J (±5.0%)				
SCR20	0.25	D (±0.5%)	10~1M	±100	150V	200V
		F (±1.0%)				
		J (±5.0%)				
SCR32	0.33	D (±0.5%)	10~1M	±100	200V	400V
		F (±1.0%)				
		J (±5.0%)				
SCR35	0.50	D (±0.5%)	10~1M	±100		
		F (±1.0%)				
		J (±5.0%)				
SCR50	0.75	D (±0.5%)	10~1M	±100		
		F (±1.0%)				
		J (±5.0%)				
SCR64	1.00	F (±1.0%)	10~1M	±300		
		J (±5.0%)				
		J (±5.0%)				

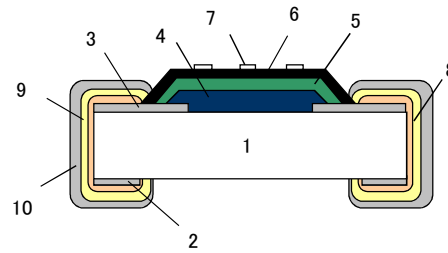
\* Operating temperature range : -55~+155 °C

\* Design specification are subject to change without prior notice. Please check before purchase and use.

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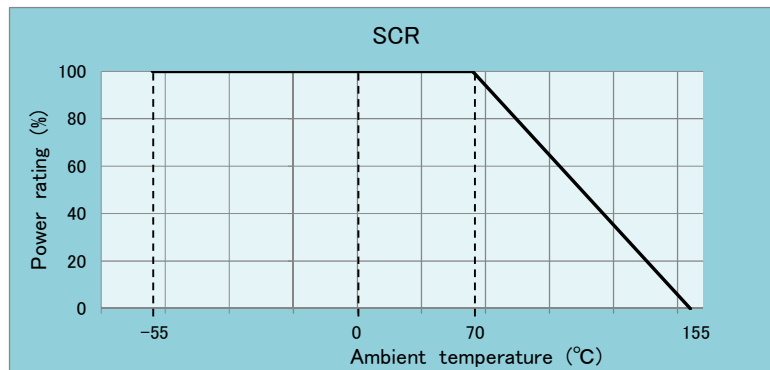
## 【Structure】

No.	Element Name
1	Ceramic substrate
2	Bottom electrode
3	Top electrode
4	Resistive element
5	Protective coat I
6	Protective coat II
7	Marking
8	Side electrode
9	Ni plating
10	Sn plating



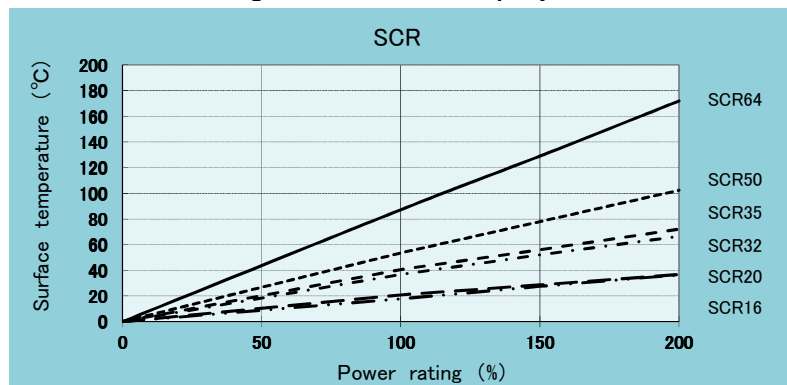
## 【Power derating curve】

■ When used at ambient temperature of 70°C or above, power rating must be derated in accordance with the derating curve. below.



## 【Surface temperature rise】

■ As for relation between rated power ratio and surface temperature rise, refer to the below.  
Condition: Measured with solder on glass fiber laminate epoxy resin (t=1.6mm).



## 【Pulse-proof characteristic】

