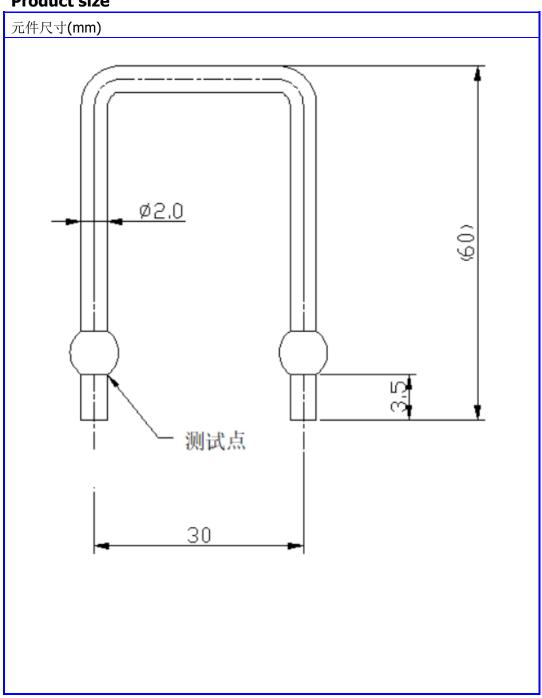
# **Constantan Resistor Specification**

Product Name: Constantan Resistor (Door-shaped 門型)

Product No.:  $\varphi$ 2.0 \* 30 / 22 milliohm

### **Product size**



**Electrical parameters** 

ITEM	PARAMETER
Resistance	0.022 Oh
Rated Current	20A(12A)
Power	8.8W
Surface treatment	Nothing
Weldability	Good

**Constantan properties** 

Constantan properties			
ITEM	Characteristic		
Brand Alloy Name	6Ј40		
	Cu	Mn	Ni
Composition %			
	Allowance	1-2	39-41
Resistivity μΩ•m	0.48±0.03		
PPM/℃	±40		
EMF VS Cu(O−100°C)uV/°C	≤45		
Density g/cm³	8. 9		
Melting Point ℃	<1260		
Tensile Strength Mpa	>390		
Elongation LO=200mm	>15		
Service Temperature	0–500		

#### **Specification**

ITEM	Value	Test method (according to JIS C 5202)
Short time load	Within $\pm 2\%$	RCWV*2.5 or Max Overloading Voltage, 5 seconds
Terminal strength	No evidence of mechanical damage	5Kg/10sec
Tin immersion test	Within $\pm 1\%$	$350\pm10^{\circ}$ C, $3.5\pm0.5$ s After test leave for 3h
Weldability test	Covered with new solder by 95% at least	$260\pm5$ °C, $10\pm0$ . 5seconds
Temperature cycling test	Within $\pm 1\%$	-55 <sup>~</sup> 200℃ 100cycles
Moisture load resistance test	Within ±5%	40±2℃, 90 to 95%RH,1000h Rated voltage(90 min on, 30 min off)
Load life test	Within $\pm 5\%$	70±2℃, 1000h Rated voltage(90 min on, 30 min off)

# **Purpose:**

- ► Accuracy is required for current sampling within the range of ±5%
- ► Feedback circuit
- ► Low inductance circuit
- ► High current pulse circuit

## **Packing**

▶ In bulk, 500PCS per package