

 ZHONGSHAN KINGRONG ELECTRONICS CO.,LTD.	PN NO.	KRE-RESx
	Version	A
CEMENT RESISTORS 水泥电阻器	Pages	第 1 页 共 4 页

SPECIFICATION FOR

APPROVAL

承认书

CUSTOMER ID: 中山景荣

PRODUCT NAME: 水泥电阻器

DESCRIPTION: SQP20W 5R6 ±5% 规格承认

CPN:

NOTES:

SAMPLING DATE: 2024-2-28

KRECO:

Approval	Check By	Prepared By
黄学东	邓小亮	李小龙

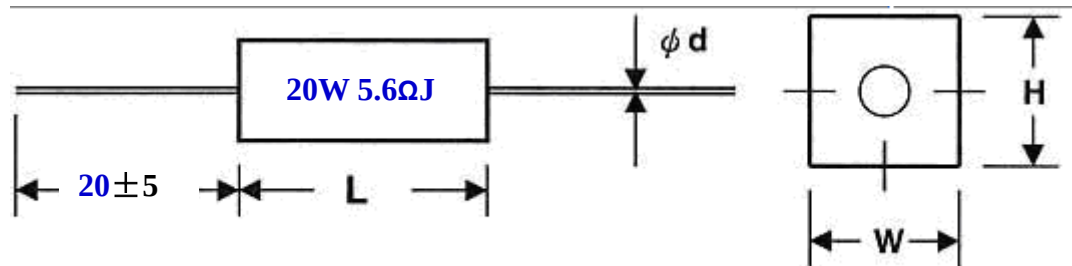
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Customer Approval:

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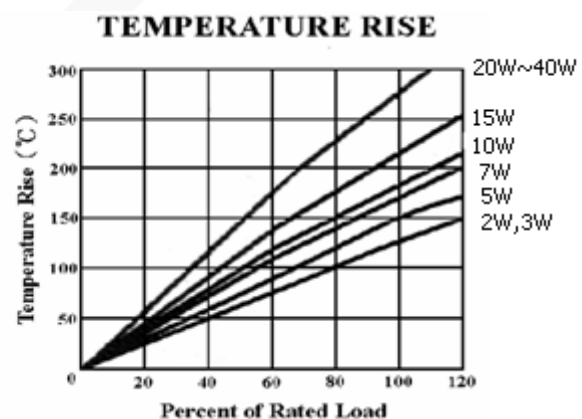
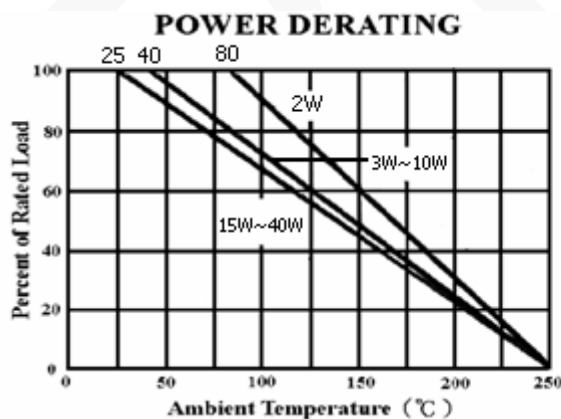
1. Dimensions (mm)



Type	L±1.0	H±1.0	W±1.0	d±0.05
SQP 20W	48.0	9.0	9.5	0.70

DEEHO's wire wound resistors are made by winding the resistance wire around the glass fiber core or ceramic core. For high ohmage value and resistance range 1% the metal oxide film will be used instead of the wire wound. Two types of packaging are available. Type one using non-corrosive. Heat proof, humidity proof, and nonflammable.

2. Power Derating Curve & Temp.Rise Curve



3. Performance Specifications

Characteristics	Standard	Test Methods
1. Temperature Coefficient of Resistors	Wire Wound -80~+900	Natural resistance change per temperature degree centigrade. $\frac{R_2 - R_1}{R_1(T_2 - T_1)} \times 10^6 \text{ (PPM/°C)}$

(PPM/°C)		R1: Resistance value at reference temp. (T1) R2: Resistance value at reference temp. (T2) T1: Room temperature T2 : T1+100°C
2. Dielectric Withstanding Voltage	No evidence of flashover, mechanical damage or arcing or insulation break down	Resistors shall be subjected to an approximately sinusoidal test potential (as below) 60Hz applied between both terminals connected together and a 90° V-Block extending beyond the end of the resistor
		Resistor Wattage
		AC or RMS Volts
		1W ABOVE 500
3. Solderability	90% Covered min.	The terminal lead shall be dipped into molten solder s at 3.2 to 4.8mm from the body of resistor. The temp. and time as below: a. 235±5°C for 2±0.5 seconds b. 270±10°C for 2±0.5 seconds
4. Resistance to Soldering	No evidence of mechanical damage $\Delta R / R$ at $\pm 2\%$ Max	The terminal of the resistor is dipped into the molten solder of $350 \pm 10^\circ\text{C}$ for 3 ± 0.5 seconds. Then put the resistor in the room temperature. For 3 min. hours.
5. Humidity Load Life	$\pm 5\%$ Max / 1000Hours	Resistance change after 1000 hours (1.5 hours on 0.5 hours off) at rated continuous working voltage in a humidity chamber controlled at $40 \pm 2^\circ\text{C}$ and 90~95% relative humidity .
6. Load Life	$\pm 5\%$ Max / 1000Hours	Permanent resistance change after 1000 hours operating at rated continuous working voltage with a duty cycle of 1.5 hours on 0.5 hours off at $70 \pm 2^\circ\text{C}$ ambient
7. Temperature Cycling	$\pm 2\%$ Max with no evidence of mechanical damage	Resistance change after continuous 5 cycles for duty cycle as specified below.
		Step
		Temperature
		Time
		1 -30°C 30 Minutes
		2 +25°C 10~15 Minutes
		3 +85°C 30 Minutes
		4 +25°C 10~15 Minutes

Characteristics	Standard	Test Methods
8. Short Time Overload		Permanent resistance change after the application of a potential of 2.5 times rated

CEMENT RESISTORS

水泥电阻器

	$\Delta R / R$ at $\pm 3\%$ Max with no evidence of arcing burning, or charring	continuous working voltage for 5 seconds at room temperature.
9. Terminal Strength	No evidence of mechanical damage or loosening terminals	Direct load resistance to 2.5kg direct load 30 ± 5 seconds twist test, for axial leads unit only. Terminal lead shall be bent through at a right angle at a point of 6.35mm from the body of resistor and shall be rotated through at a right angle about the original axis of the bent terminal in alternating direction for a total of 3 rotations.
10. Burn Out	The arcing and or flaming duration is less than 2seconds and the flame height is less than 1/2 inch.	Resistors burning out or opening up for overloads in excess of 10 times rated wattage (regardless of how it is applied)

4.Part Number

SQP - 20W - J - 5R6 - P

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1 - 2 - 3 - 4 - 5

1. Type	SQP = Cement Resistor P Type							
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2. Power/Size	Type	2W	3W	5W	7W	10W		40W
	Power	2W	3W	5W	7W	10W		40W

3. Tolerance	Code	J				F		
	%	$\pm 5\%$				$\pm 1\%$		

4. Value	E24	R15	1R5	150	151	152	153	154	155	156
	Value	0.15Ω	1.5Ω	15Ω	150Ω	1.5KΩ	15KΩ	150KΩ	1.5MΩ	15MΩ

5. Shape	Code	T	P	M	MB	MK
	Type	Taping	P Type	M forming	MB forming	MK forming