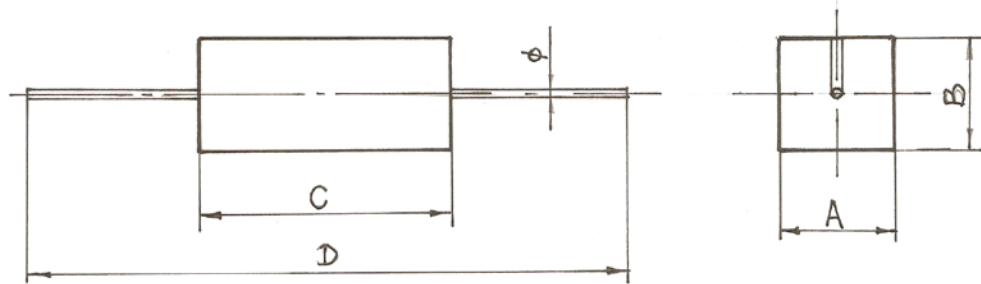


THE STANDARD STYLE BOOK OF CEMENT RESISTOR
(MODEL RX27-1- 7W- 6K8-J)



1 Dimension:

Dimension (mm)	A	B	C	D	Φd
Value	10±1	9±1	35±1	85±2	0.68±0.05

2 Rated Value:

Style	RX27-1
Rated Power	7W
Derating Curve	<p>The graph shows a derating curve for the resistor. The vertical axis represents power in Watts (W) from 0 to 100. The horizontal axis represents temperature in degrees Celsius (°C) from -55 to 300. The curve starts at 100W at -55°C and decreases linearly to 0W at 275°C. A point is marked at 70W and 75°C, and another at 27.5W and 275°C.</p>
Rated Voltage	$\sqrt{\text{額定功率(W)} \times \text{標稱阻值}(\Omega)}$ Vdc
Maximum Voltage	500V
Maximum Overload Voltage	700V
Tolerance	J(±5%)
Resistance Range	6K8
Operating Temperature Range	-55°C ~ +155°C

3 Performance:

Description		Performance Requirements	Test Method
Resistance Temperature Coefficient		T. C. R. $\leq 350\text{ppm}/^{\circ}\text{C}$	Test temperature +20 °C / -55 °C / +20 °C / +125°C / +20°C
Short-time Overload		$\Delta R \leq \pm (1\% R \pm 0.05R)$ No visible damage, Markings legible	2.5 times rated voltage or maximum overload voltage (the lower) 5 seconds
With Standing Voltage		No flasheover or breakdown	AC 700V 1 minute
Terminal Strength	Pulled	$\Delta R \leq \pm (1\% R + 0.05R)$ No visible damage	Φd 0.68mm; Load 20N 10s
	Winded		Φd 0.68mm; Load 20N 90°
	Twisted		360° in opposite direction
Resistance to Vibration		$\Delta R \leq \pm (1\% + 0.05R)$ No visible damage	3 direction 2 hours each
Solder-heat Resistance		$\Delta R \leq \pm (1\% R + 0.05R)$ Marks legible, no visible damage	350 °C 2mm from the body, 3 seconds
Solderability		At least 95% of the dipping surface must be covered by new solder, no flaws gathered.	235°C 2mm from the body, 2 seconds
Temperature Cycle		$\Delta R \leq \pm (1\% R + 0.05R)$ No visible damage	-25 / +155°C for 5 cycles
Humidity		$\Delta R \leq \pm (5\% R + 0.05R)$ No visible damage	40°C 95%RH 1344 hours
70°C Load Life		$\Delta R \leq \pm (5\% R + 0.1R)$ No visible damage, marks legible	rated voltage or maximum voltage, 1.5 hours on, 0.5 hours off, 70 centigrade temperature 1000 hours