

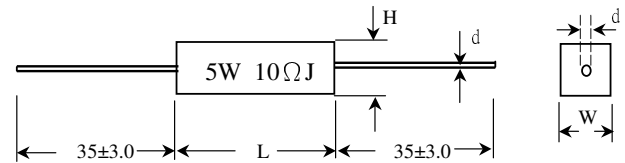
Cement Resistors - SQP TYPE

FEATURES

- Small size and low cost,
- Super heat dissipation, stable in high temperature
- Instant overload capability
- Standard Tolerance: $\pm 5\%$ (available 1% - 5%)
- Standard Value: E24 series as range below
- Working Temperature Range: $-55^{\circ}\text{C} \sim +275^{\circ}\text{C}$
- For high resistance values, metal oxide film rods will be utilized to replace the wirewinding core.
- Package in bulk type only

MATERIAL

- Core: High purity ceramic Al_2O_3
- Element: Alloy resistance wire
- Termination: Standard solder-plated cooper lead
- Case: Ceramic bathtub



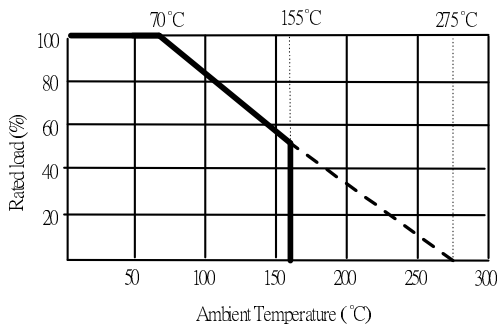
GENERAL SPECIFICATION

TYPE	DIMENSION (mm)				POWER RATING	MAX. VOLTAGE		RESISTANCE RANGE	
	L ± 2.0	W ± 1.0	H ± 1.0	d ± 0.05		WORKING	OVERLOAD	WIREWINDING	MOF RODS
SQP-2	18.0	6.5	6.5	0.80	2W	350V	700V	0.1 Ω ~ 100 Ω	101 Ω ~ 1M Ω
SQP-3	22.0	8.0	8.0	0.80	3W	500V	1000V	0.1 Ω ~ 100 Ω	101 Ω ~ 1M Ω
SQP-5	22.0	10.0	9.5	0.80	5W	750V	1500V	0.1 Ω ~ 100 Ω	101 Ω ~ 1M Ω
SQP-7	35.0	10.0	9.5	0.80	7W	1000V	1500V	0.5 Ω ~ 500 Ω	501 Ω ~ 47K Ω
SQP-10	48.0	10.0	9.5	0.80	10W	1000V	1500V	0.5 Ω ~ 1K Ω	1K1 Ω ~ 47K Ω
SQP-15	48.5	12.5	11.5	0.80	15W	1000V	1500V	0.5 Ω ~ 1K Ω	1K1 Ω ~ 47K Ω
SQP-20	60.0	15.0	13.5	0.80	20W	1000V	1500V	0.5 Ω ~ 1K Ω	1K1 Ω ~ 47K Ω
SQP-25	60.0	15.0	13.5	0.80	25W	1000V	1500V	0.5 Ω ~ 1K Ω	1K1 Ω ~ 47K Ω

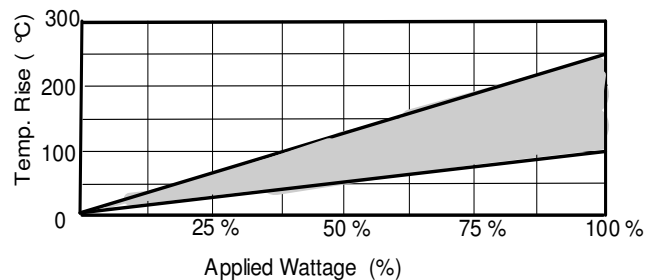
* Maximum Working Voltage determined by $E = \sqrt{PxR}$, where E should not exceed value listed in column above.

** Maximum Overload Voltage equals to $2.5 \times E$, but should not exceed value listed in column above

DERATING CURVE



TEMPERATURE RISE



CHARACTERISTIC

Temperature Coefficient	$\pm 350\text{ppm}$
Insulation Resistance	10,000M Ω Min.
Load Life (1000 hours)	$< \pm 5\% + 0.05 \Omega$
Shorttime Overload	$< \pm 2\% + 0.05 \Omega$
Temperature Cycling	$< \pm 1\% + 0.05 \Omega$
Moisture Resistance	$< \pm 5\% + 0.05 \Omega$
Shock & Vibration	$< \pm 1\% + 0.05 \Omega$
Effect of Soldering	$< \pm 2\% + 0.05 \Omega$

HOW TO ORDER :

<u>SQP5W</u>	<u>0R5</u>	<u>J</u>
Type/Power/size	Resistance Value	Tolerance
SQP2W	0R1 = 0.1 Ω	J = $\pm 5\%$
SQP3W	10R = 10 Ω	G = $\pm 2\%$
SQP5W	1K2 = 1.2K Ω	F = $\pm 1\%$
SQP7W		
SQP10W		
SQP15W		
SQP20W		
SQP25W		

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