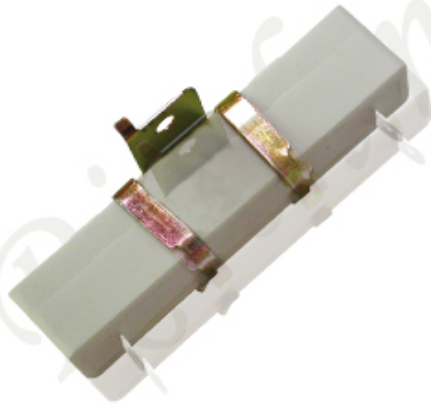


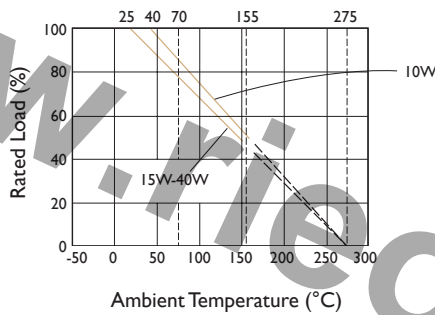
Cement Resistors



FEATURES

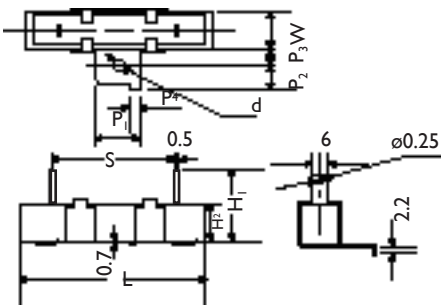
- Low Cost
- Small Size, High Power Capacity
- Resistance Tolerance: $\pm 5\%$, $\pm 10\%$
- Completely Unflamable

DERATING CURVE

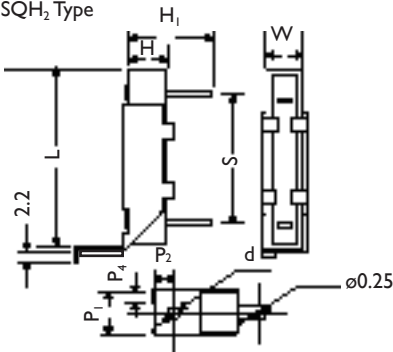


DIMENSIONS

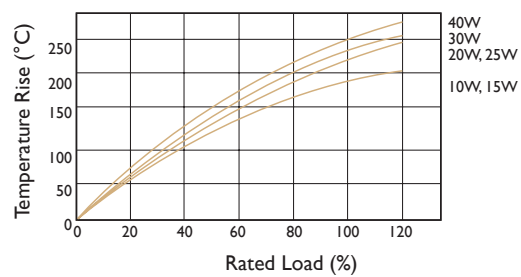
SQH₁ Type



SQH₂ Type



TEMPERATURE RISE



Unit : mm

STYLE	DIMENSION									
STD	L	H	W	S	H ₁	H ₂	P ₁	P ₂	P ₃	P ₄
SQH10A	48.0±1.5	10.5±1.0	10.5±1	33.0±2	19.5±1.0	4.0	11.0±0.2	6.0	8.0	3.0
SQH15A	48.0±1.5	12.5±1.0	12.0±1	33.0±2	20.5±1.0	4.0	11.0±0.2	6.0	8.0	3.0
SQH20A	63.5±2.0	12.5±1.0	12.5±1	48.0±2	20.5±1.0	4.0	11.0±0.2	6.0	8.0	3.0
SQH25A	63.5±2.0	16.0±1.0	16.0±1	46.0±2	28.0±1.5	4.2	11.0±0.2	6.0	10.0	3.0
SQH30A	75.0±2.0	19.0±1.5	18.0±1	56.0±2	28.0±1.5	4.2	18.0±0.2	8.0	10.0	3.0
SQH40A	90.0±2.5	19.0±1.5	18.0±1	71.0±2	28.0±1.5	4.2	18.0±0.2	8.0	10.0	3.0

ELECTRICAL CHARACTERISTICS

STYLE	SQH10A	SQH15A	SQH20A	SQH25A	SQH30A	SQH40A
Power Rating	10W	15W	20W	25W	30W	40W
Operating Temp. Range	-55°C to +155°C					
Maximum Working Voltage	250V	350V	500V	500V	500V	500V
Maximum Overload Voltage	500V	700V	1000V	1000V	1000V	1000V
Dielectric Withstanding Voltage	1000V	1000V	1000V	1000V	1000V	1000V
Value Range ±5% (Ceramic Core)	0.39Ω~270Ω	0.39Ω~300Ω	0.51Ω~300Ω	0.51Ω~1KΩ	0.62Ω~1KΩ	0.62Ω~1KΩ
Value Range ±5% (Metal Oxide Film)	300Ω~10KΩ	330Ω~10KΩ				
Temperature Coefficient	±300ppm/°C					

* I. Standard resistance is as the above list, below or over this resistance on request.

ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD	APPRAISE	
Short Time Overload	JIS-C-5202 5.5	2.5 Times RCWV for 5 Seconds	±(2%+0.05Ω)
Dielectric Withstanding Voltage	JIS-C-5202 5.7	in V-Block for 60 Seconds	by Type
Temperature Coefficient of Resistance	JIS-C-5202 5.2	-55°C to +155°C	±300ppm/°C
Insulation Resistance	JIS-C-5202 5.6	in V-Block	>100MΩ
Solderability	JIS-C-5202 6.5	235±5°C for 5±0.5 Seconds	95% Min. Coverage
Resistance to Solvent	JIS-C-5202 6.9	IPA for 1 Min. with Ultrasonic	No Deterioration of Coatings and Markings
Terminal Strength	Direct Load for 10 Sec. in The Direction of The Terminal Leads		≥2.5kg (24.5N)
Pulse Overload	JIS-C-5202 5.8	4 Times RCWV 10000 Cycles (1 Sec. on , 25 Sec. off)	±(2%+0.05Ω)
Load Life in Humidity	JIS-C-5202 7.9	40±2°C, 90~95% RH at RCWV for 1000 Hrs. (1.5 Hrs. on , 0.5 Hrs. off)	±(5%+0.05Ω)
Load Life	JIS-C-5202 7.10	70°C at RCWV for 1000 Hrs. (1.5 Hrs. on , 0.5 Hrs. off)	±(5%+0.05Ω)
Temperature Cycling	JIS-C-5202 7.4	-55°C→Room Temp.→+155°C→Room Temp. for 5 Cycles	±(2%+0.05Ω)
Resistance to Soldering Heat	JIS-C-5202 6.4	350°C±10°C for 3±0.5 Seconds	±(1%+0.05Ω)

* Rated Continuous Working Voltage (RCWV)= $\sqrt{\text{Power Rating} \times \text{Resistance Value}}$