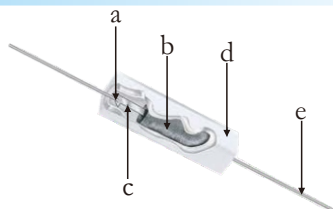


● Features

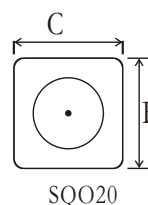
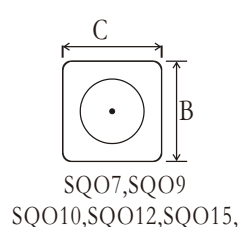
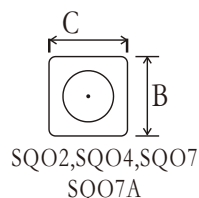
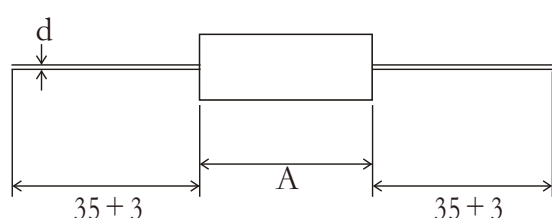
- I Low TC, high pulse capability
- II Non-inductive metal element
- III High stability
- IV Excellent overload capability

● Construction



a	Alloy Welded Construction
b	Quartz Silica Powder
c	Alloy Electrical Resistance Ribbon
d	Fire Proof Ceramic Housing
e	Tinned Copper Terminals

● Dimensions, Applications And Ratings



Type	Rated Power (W) at 70°C	Dimensions (mm)				Resistance Range	
		A ± 1.5	B ± 0.5	C ± 0.5	d ± 0.05	Min	Max
SQO2	2.5W	15	6.4	6.4	0.8	R0025	5K
SQO4	4W	18	6.4	6.4	0.8	R003	5K
SQO5	5W	25	6.4	6.4	0.8/1.0	R003	5K
SQO7	7.5W	25	6.4	6.4	0.8/1.0	R003	10K
SQO7A	7W	38	6.4	6.4	0.8/1.0	R004	10K
SQO9	9W	38	9.0	9.0	0.8/1.0	R004	10K
SQO10	10W	38	9.0	9.0	0.8/1.0	R004	10K
SQO12	12W	50	9.0	9.0	0.8/1.0	R008	15K
SQO15	15W	75	9.0	9.0	0.8/1.0	R008	15K
SQO20	20W	50	12.5	12.5	0.8/1.0	R008	15K

Note: If you need added a long lead on one side and folded it for soldering purpose. We have used a heat shrinkable sleeve so that there is no problem with any side component shortcircuiting due to the added lead. The lead length after the resistor body is “30mm ± 3mm” please contact us

● Reference Standards

JISC 5201-1

● Ordering Information

Example:

SQO	4	F	100R0
(1)	(2)	(3)	(4)
Series Name	Power Rating	Resistance Tolerance	Resistance Value

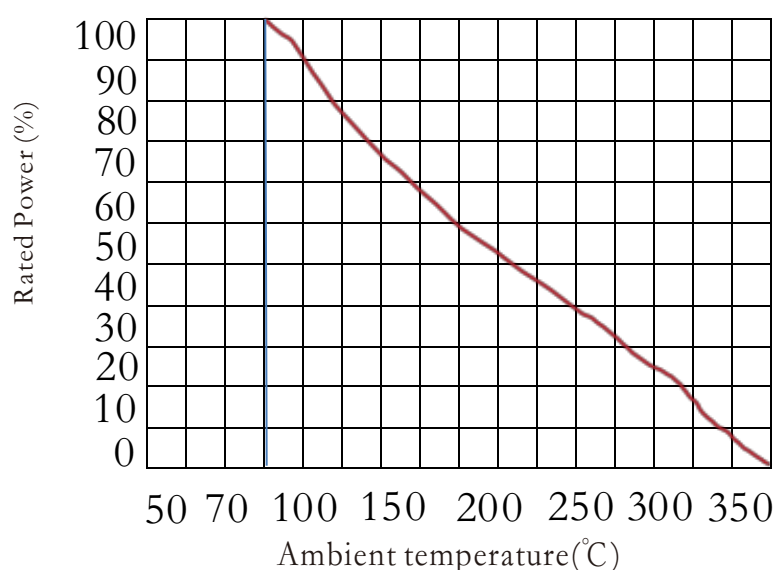
(1)Type: SQO SERIES

(2)Power Rating: 2=2.5W,4=4W,5=5W,7=7.5W,7A=7W,9=9W,10=10W,12=12W,15=15W...

(3)Tolerance: F=±1%, G=±2%, H=±3%, J=±5%, K=±10%

(4)Resistance Value:100R0=100Ω

● Derating Curve



● Performance

Test Items	Specifications
Power Rating (Rated Ambient Temperature)	Full Power dissipation at 70°C and linearly derated to zero at +275°C - [Refer Derating curve above]
Resistance Tolerances Available	±10% (K); ±5% (J); ±3% (H); ±2%(G); ±1% (F)
Temperature Range	-55°C to +275°C with suitable derating as per derating curve
Voltage Rating / Limiting Voltage / Max Working Voltage	$V = \sqrt{P \times R}$
Voltage Proof / Dielectric Withstanding Voltage	$\Delta R \pm (1\%R + 0.05\Omega)$. No flashover, mechanical damage.
Short Time Overload (5 x Rated power for 5 secs)	$\Delta R \pm (0.75\%R + 0.05\Omega)$ - Average. $\Delta R \pm (1.25\%R + 0.05\Omega)$ - For resistance values near maximum range.
Temperature Co-efficient of Resistance (Measured from -55°C to +125°C referenced to +25°C)	±220 ppm/°C (Depending on resistance value and can be lowered by using 1mmØ terminations)
Insulation Resistance	> 1000MΩ(min)
Temperature Cycling (Room temperature → -55°C → Room temperature → 200°C → Room temperature for 5 cycles)	$\Delta R \pm (0.5\%R + 0.05\Omega)$
Damp Heat (Steady State) (40°C at 93% R.H for 1000 hours - no load applied)	$\Delta R \pm (0.5\%R + 0.05\Omega)$ - Average
Endurance - Load Life (70°C with limiting voltage - 1.5 hours on / 0.5 hours off for 1000 hours)	$\Delta R \pm (\leq 2.75\%R + 0.05\Omega)$ - Average