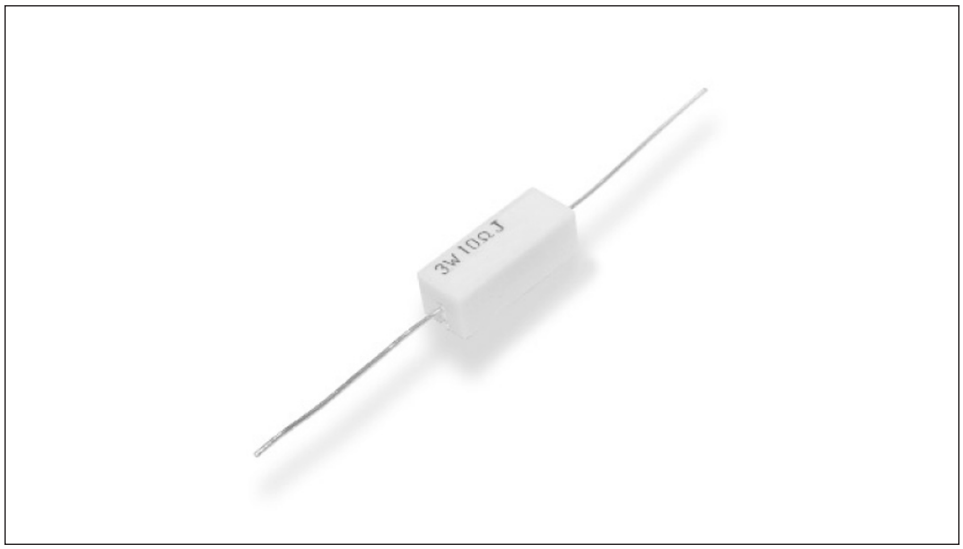
Type FSQ Series

Key Features

- Protects Circuit Boards & Designs
- Small Size
- Excellent Long Term Stability
- Complete Flame Proof Construction
- Resistant to High Temperature
- Low Temperature Coefficient
- Uniform in Fusing Time



There are some similarities between resistors and fuses in material and structure. Fusible Resistors contain both functions, as a resistor in normal conditions and as a fuse when abnormal currents are applied, so to protect machinery and equipment. Cost savings are apparent as one component is eliminated. The FSQ Fusible Resistor series are produced with precision techniques, enabling precise and stable fusing times.

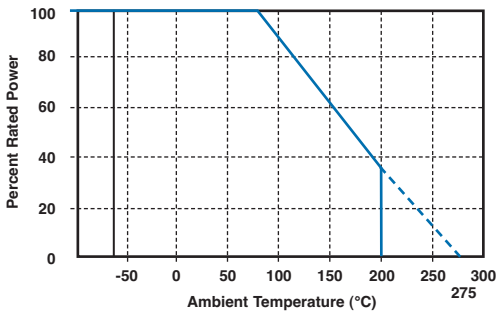
Characteristics - Electrical

Operating Temperature (°C):	-55 to +275
Resistance Temperature Coefficient (°C):	-30 to +150 ±300ppm/°C
Short Time Overload:	2.5 times of rated voltage for 5 seconds ΔR < ±2%
Insulation Resistance:	500V Megger - 1000Mohms
Temperature Cycle (°C):	-30 to +85 for 5 cycles ΔR < ±1%
Load Life:	70°C on-off cycle 1000 hours ΔR < ±5%
Moisture-Proof Load Life:	40°C 95% RH on-off cycle 1000 hours ΔR < ±5%
Solder Pot:	270°C for 3 seconds ΔR < ±1%
Incombustability:	16 times of rated power for 5 minutes - Not Flamed
Maximum Working Voltage:	1000 V

Fusing Characteristics

Fusing times can be decided by consultation with our design team to meet application requirements.

Derating Curve



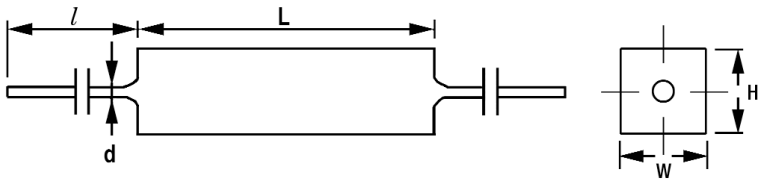
For resistors operated in ambient temperatures above 70°C, power rating must be derated in accordance with this curve.

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are standard equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

Type FSQ Series

Dimensions



Rated Power	Dimensions					Resistance Range (Ohms)
	L±1.5	H±0.5	W±1.0	l±3.0	d±0.05	
2W	18.0	7.0	7.0	23.0	0.65	R10-10K
3W	22.0	8.0	8.0	35.0	0.8	R10-33K
5W	22.0	9.0	10.0	35.0	0.8	R10-50K
7W	35.0	9.0	10.0	35.0	0.8	R10-50K
10W	48.0	9.0	10.0	35.0	0.8	R10-50K

How to Order

FSQ	3W	R10	J	T
Common Part	**Power Rating**	**Resistance Value**	**Tolerance**	**Packaging**
FSQ - Ceramic Housed	Example: 3W 7W	0.1 Ohm (100 milliohms) R10 1.0 Ohm (1000 milliohms) 1R0 50 Ohms (50000 milliohms) 50R	J - ±5%	T - Ammo Boxed