

**Type FSQ Series**

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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.

**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

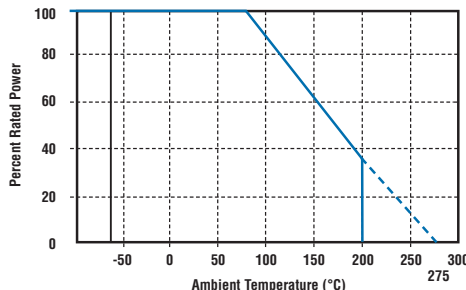
**Characteristics - Electrical**

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

**Fusing Characteristics**

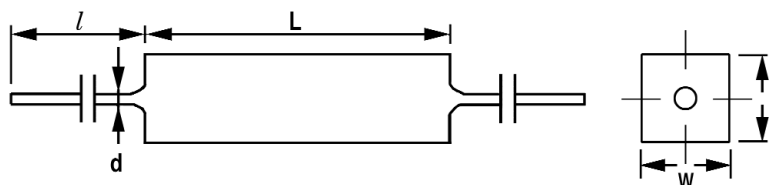
Fusing times can be decided by consultation with our design team to meet application requirements.

**Derating Curve**



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

**Dimensions**



Rated Power	Dimensions					Resistance Range (Ohms)	Maximum Working Voltage
	L±1.5	H±0.5	W±1.0	l±3.0	d±0.05		
2W	18.0	7.0	7.0	35.0	0.65	R10-22	1000V
3W	22.0	8.0	8.0	35.0	0.8	R10-50	1000V
5W	22.0	9.0	10.0	35.0	0.8	R20-50	1000V
7W	35.0	9.0	10.0	35.0	0.8	R30-100	1000V
10W	48.0	9.0	10.0	35.0	0.8	R30-150	1000V

**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