

Type SQF Series

Key Features

- Overheat fusing
- Various current ratings
- Up to 2.4 Watts continuous power
- 2 sizes
- Values up to 50K
- Suited to overloading and to overheating



As the Thermal fuses are incorporated, these cement filled resistors respond quickly to overloading as well as to external overheating. The SQF series also provides outstanding features against surges, and are therefore suitable for the preventing of inrush current for switching regulators. Obvious economic advantages can be achieved by not having to specify a separate thermal fuse.

Characteristics - Electrical

Resistive Element:	SQF5 R10 - 150R SQF7 R10 - 430R	Wirewound		
	SQF5 151R - 50K SQF7 431R - 50K	Metal Film		
Tolerance:	_	J - +/-%		
Temperature Coefficience of	<1R0	+/-600PPM		
Resistance (TCR):	1R0 - 50K	+/-300PPM		
Operating Temp Range:	_	-25 ~ 125 deg.C		
Short Time Overload:	10 x Rated Power for 5 seconds	+/-2%		
Voltage Withstand:	1,000V AC 1 Minute	No change		
Insulation Resistance:	500V Megger	1000M Ohm		
Temperature Cycle:	-25 ~ +125 deg. C for 5 cycles	+/-1%		
Load Life:	25 Deg. C on off cycle for 1000 Hours	+/-5%		
Moisture-Proof Load Life:	40 Deg. C. 90-95% humidity 500hours +24/-0	+/-5%		
Incombustability:	r: 16 X rated Wattage for 5 Minutes			

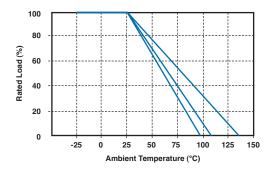
Characteristics - Electrical

Туре	Resistance Range	Tolerance	Fuse Type (°C)Rated Rated Cut Off		Rated Wattage	Maximum Wattage	Maximum Working	Working
			Temp.	Temp.	(Continuous)	(Momentary)	Voltage	Current
SQF5		+/-5%	145	140 +/-2	1.6W	5W	250V	3A
SQF5			145	140 +/-2	1.6W	5W	250V	5A
SQF7	R10 - 50K		145	140 +/-2	2.2W	7W	250V	3A
SQF7	H10 - 50K		145	140 +/-2	2.2W	7W	250V	5A
SQF7			132	131+3/-4	2.2W	7W	250V	10A
SQF7			185	181+/-2	2.4W	7W	250V	10A



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Derating Curve



Rated Power

Rated Power is the value of Max load voltage specified at the ambient temperature of 25°C, and shall meet the functions of electrical and mechanical performance. When the ambient temperature surpasses the above mentioned temperature, the value declines as per the Derating Curve.

Rated Voltage

It is calculated through the following formula:

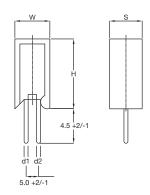
where E: rated voltage (V) P: rated power (W)

R: total nominal resistance (Ω)

However, in case the voltage calculated exceeeds the maximum load voltage, such the maximum load voltage shall be regarded as its rated voltage, means whichever less.

Dimensions

 $E = \sqrt{PXR}$



Туре	W ± 1	S ± 1	H ± 1.5	D1 ±0.1	D2 ±0.1
SQF5	13	9	25	0.8	3A:0.6 5A:1.0 10A:1.0
SQF7	13	9	39	0.8	

How to Order SQF5 50R 145 5 **Common Part** Resistance Value **Tolerance** Fuse Temperature **Max Working Current** 0.1 Ohm = R10See Table Above 1.0 Ohm = 1R0 SQF5 3 = 3AJ = +/-5%See table above SQF7 1000 Ohms = 1K0 5 = 5A50,000Ohms = 50K 10 = 10A

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