

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

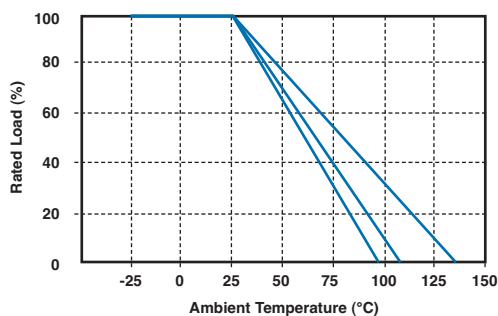
Resistive Element:	SQF5 R10 - 150R SQF7 R10 - 430R	Wirewound
	SQF5 151R - 50K SQF7 431R - 50K	Metal Film
Tolerance:	—	J - +/-%
Temperature Coefficient of Resistance (TCR):	<1R0	+/-600PPM
	1R0 - 50K	+/-300PPM
Operating Temp Range:	—	-25 ~ 125 deg.C
Short Time Overload:	10 x Rated Power for 5 seconds	+/-2%
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%
Incombustibility:	16 X rated Wattage for 5 Minutes	No Flame

Characteristics - Electrical

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

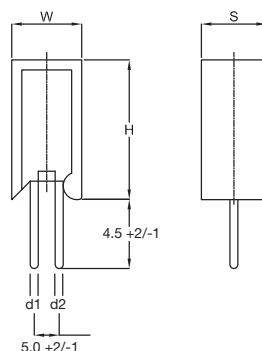
It is calculated through the following formula:

$$E = \sqrt{PXR}$$

where E: rated voltage (V)
P: rated power (W)
R: total nominal resistance (Ω)

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

Dimensions



Type	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
SQF7	13	9	39	0.8	10A:1.0

How to Order

SQF5	50R	J	145	5
Common Part	Resistance Value	Tolerance	Fuse Temperature	Max Working Current
SQF5	0.1 Ohm = R10	J = +/-5%	See table above	See Table Above
SQF7	1.0 Ohm = 1R0			3 = 3A
	1000 Ohms = 1K0			5 = 5A
	50,000Ohms = 50K			10 = 10A

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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