Type RSSF Series

Key Features

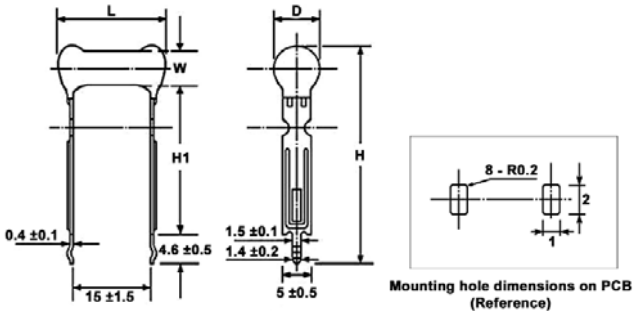
- High Power with Small Size for Space Saving
- Excellent Long Term Stability
- Complete Flameproof Construction
- High Surge/Overload Capability
- Controlled Temperature Capability
- Solvent Resistant Coat and Code

The resistive element comprises a metal oxide film deposited on a ceramic former. The element is protected by a flameproof coating which will withstand overload conditions without flame or mechanical damage. They are recommended for use in applications such as line protection, automotive. TV's, switch mode power supplies, etc…

Characteristics - Electrical

	RSSF 3		RSSF 5	
Rated Power @ 70°C (W):	3		5	
Resistance Range (ohms):	1R0 – 9R1	10R – 100K	1R0 – 9R1	10R – 100K
Tolerance (%):	10	5	10	5
Code Letter:	K	J	K	J
Temp. Coefficient Max (ppm/°C):	± 200			
Selection Series:	E24			
Limiting Element Voltage (V):	500		500	
Maximum Overload Voltage (V):	800		1000	
Max Intermittent Overload Voltage (V):	1000		1500	
Operating Temp. Range (°C):	-55 to +155			
Climatic Category:	55/155/56			
Dielectric Strength (V):	1000			

Dimensions



Style	L	D ±1.5	W ±1.5	H1 +3.0/-0	H
RSSF 3	18.0	7.5	7.5	15.0	29.0
RSSF 5-15	18.0	7.5	7.5	15.0	29.0
RSSF 5-25	18.0	7.5	7.5	25.0	29.0

Points A & B define temperature rise measurement points
See graphs on next page

Marking

The resistors are marked alpha numerically with the type, value and tolerance.

Packaging

The RSSF Series resistors are packed loose in box quantities of 500 with an MOQ 1000.

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.

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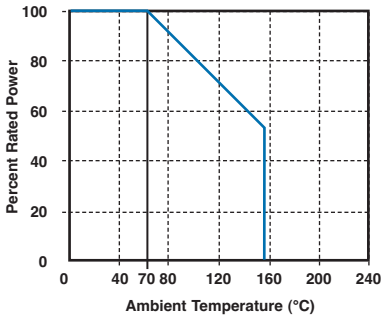
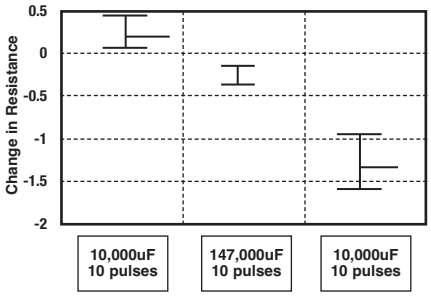
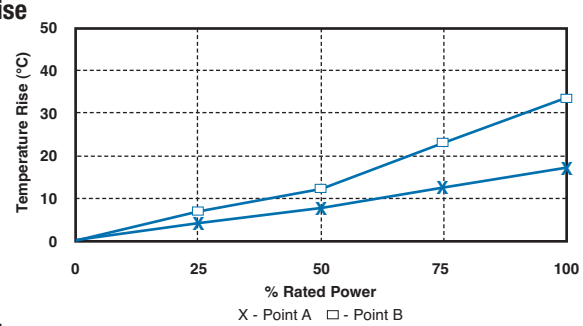
Power Derating Curve



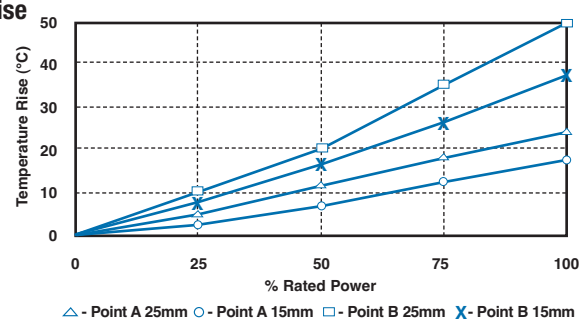
Pulse Handling Capability
RSSF 5W 1R8 5%



Temperature Rise
RSSF3 1K0



Temperature Rise
RSSF5 1K0



Performance Characteristics

The evaluation of the performance characteristics is carried out with reference to IEC Specifications QC 400 000 and QC 400 100.

TEST REF	Long Term Tests ± (5% + 0.1 ohm)
4.23	Climatic sequence
4.24	Damp heat, steady state
4.25.1	Endurance at 70 °C
4.25.3	Endurance at 155 °C
TEST REF	**Short Term Tests ± (2% + 0.05 ohm)**
4.13	Overload
4.16	Robustness of terminations
4.18	Resistance to soldering heat
4.19	Rapid change of temperature
4.22	Vibration

How to Order

RSSF	3	J	1K0
Common Part	**Size**	**Tolerance**	**Resistance Value**
RSSF - Flame-Proof Power Metal Oxide Film Resistor	3 = 3W 5-15 = 5W (Height 15mm) 5-25 = 5W (Height = 25mm)	J - ±5%	eg. 1K0 10K etc.