

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

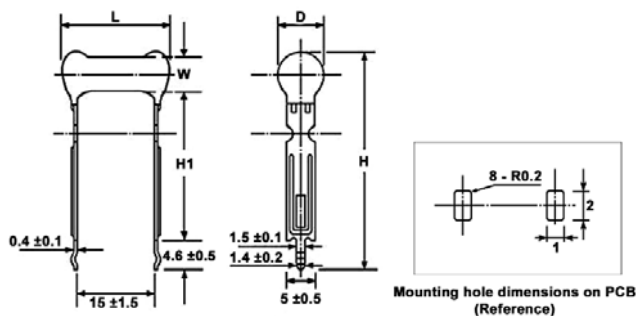


The resistive element comprises a metal oxide film deposited on a ceramic former. The element is protected by a flameproof coating which will withstand overload conditions without flame or mechanical damage. They are recommended for use in applications such as line protection, automotive, TV's, switch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

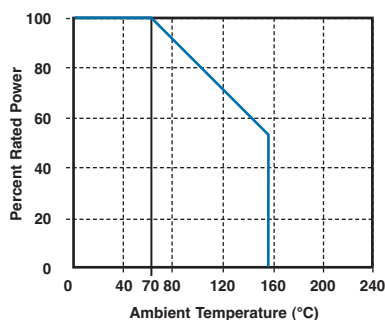
The resistors are marked alpha numerically with the type, value and tolerance.

Packaging

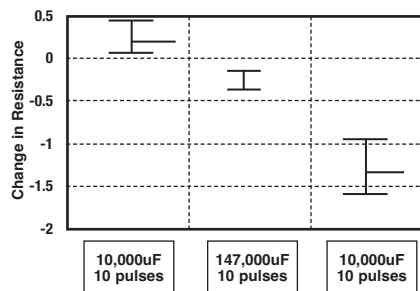
The RSSF Series resistors are packed loose in box quantities of 500 with an MOQ 1000.

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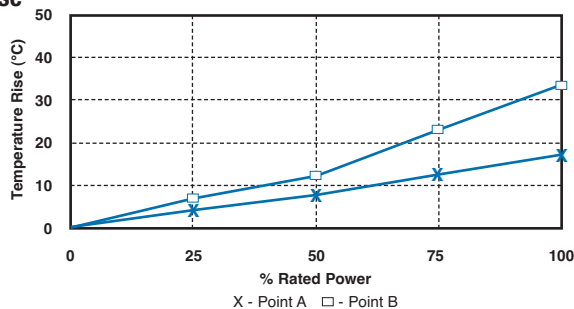
Power Derating Curve



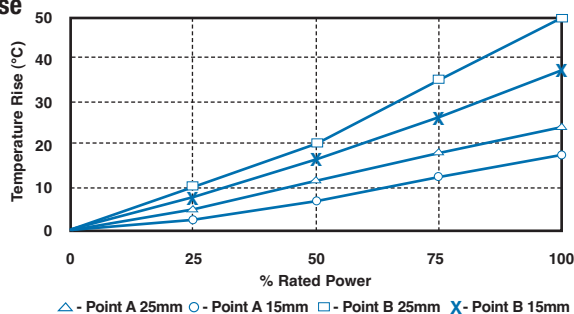
**Pulse Handling Capability
RSSF 5W 1R8 5%**



**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 \pm (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 \pm (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 - \pm 5% | eg. 1K0 10K etc. |

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