

## High Voltage Resistors

### Type RSS Series

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Miniature Power Oxide Resistors offer excellent performance in applications where stability and uniformity of characteristics are required. They provide smaller size for PC board application with high performance and precision to replace some wire-wound resistors and other high power resistors. Miniature metal oxide resistors withstand solvents test in accordance with MIL-STD-202E without producing mechanical or electrical damage.

#### 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
- Special Lead Formations Possible

#### Characteristics - Electrical

|                                  | RSS-1/2W | RSS-1W  | RSS-2W  | RSS-3W  | RSS-5W   | RSS-7W   |
|----------------------------------|----------|---------|---------|---------|----------|----------|
| <b>Power Rating at 70°C:</b>     | 1/2W     | 1W      | 2W      | 3W      | 5W       | 7W       |
| <b>Maximum Working Voltage:</b>  | 250V     | 350V    | 350V    | 350V    | 500V     | 750V     |
| <b>Maximum Overload Voltage:</b> | 600V     | 600V    | 600V    | 800V    | 1000V    | 400V     |
| <b>Resistance Range*:</b>        | 10R-33K  | 10R-50K | 10R-50K | 10R-56K | 10R-100K | 10R-200K |

\* Wider Values to Order

|                                 |                                       |
|---------------------------------|---------------------------------------|
| <b>Short Time Overload:</b>     | 2.5 times rated voltage for 5 seconds |
| <b>Temperature Range:</b>       | -55°C to +155°C                       |
| <b>Temperature Coefficient:</b> | ±300 ppm                              |

#### Power Derating Curve



#### Dimensions



| Style    | D-mm    | L-mm     | l-mm | D-mm      |
|----------|---------|----------|------|-----------|
| RSS-1/2W | 2.6±0.5 | 6.8±1.0  | 30±3 | 0.60±0.05 |
| RSS-1W   | 3.5±0.5 | 9.0±1.0  | 30±3 | 0.65±0.05 |
| RSS-2W   | 4.5±0.5 | 11.0±1.0 | 30±3 | 0.80±0.05 |
| RSS-3W   | 5.0±0.5 | 15.0±1.0 | 30±3 | 0.80±0.05 |
| RSS-5W   | 8.5±0.5 | 24.0±1.0 | 38±3 | 0.80±0.05 |
| RSS-7W   | 8.5±0.5 | 41.0±1.0 | 38±3 | 0.80±0.05 |

#### How to Order

| RSS                 | 2W                     | 100R   | J                | TB   |
|---------------------|------------------------|--|------------------|--|
| <b>Common Part</b>  | <b>Wattage at 70°C</b> | <b>Resistance Value</b>  | <b>Tolerance</b> | <b>Packaging</b>                           |
| RSS - Standard Part | See Above Table        | 100 ohm (100 ohms) 100R<br>1K0 ohm (1000 ohms) 1K0<br>100K ohm (100,000 ohms) 100K | J - 5%           | TB - Ammo packed box<br>TR - Tape and Reel |