

# SRT Resistor Technology

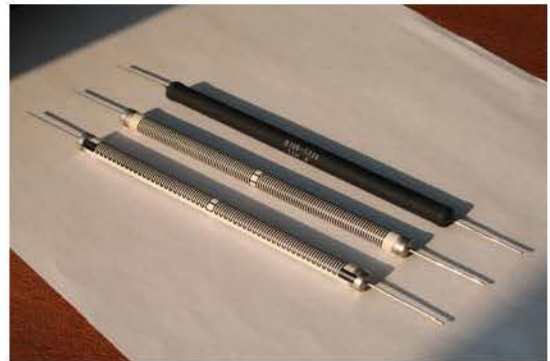
## High Voltage Resistors

Type: RIP (R180)

Sizes: RIP20, RIP26, RIP32, RIP39, RIP52, RIP78,  
RIP103, RIP124, RIP154

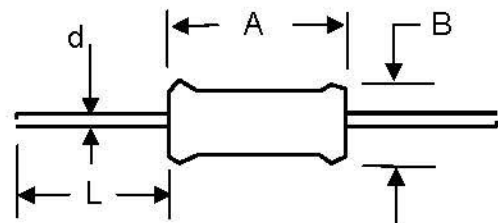
### Features:

- Axial leads
- Non inductive
- Close tolerances
- Wide range of resistance values
- High voltage up to 45 kV
- Low TCR up to 100 ppm
- High temperature up to 200°C  
(Derating from 70°C linear to 240°C)



### Dimensions:

| Size   | A      | B    | d   | L                |
|--------|--------|------|-----|------------------|
| RIP20  | 20.20  | 8.20 | 1.0 | 28 <sup>±3</sup> |
| RIP26  | 26.90  | 8.20 | 1.0 | 28 <sup>±3</sup> |
| RIP32  | 33.00  | 8.20 | 1.0 | 28 <sup>±3</sup> |
| RIP39  | 39.50  | 8.20 | 1.0 | 28 <sup>±3</sup> |
| RIP52  | 52.10  | 8.20 | 1.0 | 28 <sup>±3</sup> |
| RIP78  | 77.70  | 8.20 | 1.0 | 28 <sup>±3</sup> |
| RIP103 | 102.90 | 8.20 | 1.0 | 28 <sup>±3</sup> |
| RIP124 | 123.70 | 8.20 | 1.0 | 28 <sup>±3</sup> |
| RIP154 | 153.70 | 8.20 | 1.0 | 28 <sup>±3</sup> |



### Ordering data:

Type – value – tolerance – TCR

Example: RIP 124 1G ±5% TCR 100

Minimum order quantity (MOQ): 30 pieces per value

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### Technical data – depending on size:

| Size   | Power rating        |                      | Max. continuous oper. voltage (kV) | Resistance ( $\Omega$ ) |      |
|--------|---------------------|----------------------|------------------------------------|-------------------------|------|
|        | P <sub>75</sub> (W) | P <sub>125</sub> (W) |                                    | min.                    | max. |
| RIP20  | 2.5                 | 1.5                  | 4.8                                | 200R                    | 1G   |
| RIP26  | 3.7                 | 2.5                  | 6.4                                | 250R                    | 1G   |
| RIP32  | 4.5                 | 3.0                  | 8.0                                | 300R                    | 1G5  |
| RIP39  | 5.2                 | 4.0                  | 12.8                               | 400R                    | 1G5  |
| RIP52  | 7.5                 | 5.0                  | 16                                 | 500R                    | 2G5  |
| RIP78  | 11.0                | 7.5                  | 24                                 | 900R                    | 4G   |
| RIP103 | 12.0                | 8.0                  | 32                                 | 1K2                     | 6G   |
| RIP124 | 15.0                | 10.0                 | 40                                 | 1K5                     | 8G   |
| RIP154 | 20.0                | 15.0                 | 45                                 | 2K0                     | 10G  |

### General technical data:

|                                 |  |
|---------------------------------|--|
| Resistance Tolerance            | $\pm 1\%$ , $\pm 5\%$ , $\pm 10\%$                 |
| Temperature Coefficient         | 100ppm/ $^{\circ}\text{C}$ ,                       |
| Insulation resistance           | 10 G $\Omega$                                      |
| Temperature range               | -55 $^{\circ}\text{C}$ ... +200 $^{\circ}\text{C}$ |
| Climatic category to EN 60068-1 | 55/200/56  |
| Humidity- / contact protection  | High temperature silicone coating                  |

|  |                        |
|--|------------------------|
| Long term stability  |                        |
| Load life 125 $^{\circ}\text{C}$ /1000h                            | $\Delta R \leq 0.5\%$  |
| Overload 5x P <sub>N</sub> ( $\leq 1.5$ Max. operating voltage) 5s | $\Delta R \leq 0.5\%$  |
| Thermal shock  | $\Delta R \leq 0.25\%$ |
| Moisture resistance (240h @ 40 $^{\circ}\text{C}$ ; 93% RH)        | $\Delta R \leq 0.4\%$  |