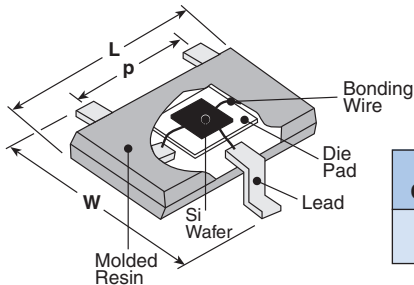




## features

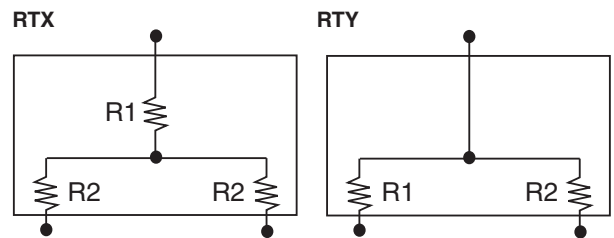
- Two circuit configurations
- Excellent parametric tracking
- Ultra precision ration matching
- Products with lead-free terminations meet EU RoHS and China RoHS requirements

## dimensions and construction



| Size Code | Dimensions inches (mm) |                |                |
|-----------|------------------------|----------------|----------------|
|           | L                      | W              | p              |
| S03       | .115<br>(2.92)         | .091<br>(2.30) | .075<br>(1.91) |

## circuit schematic



## ordering information

| New Part # | RTX        | S03   | T  | TE                                   | 5001   |
|------------|------------|---|--|--------------------------------------|--|
| Type       | RTX<br>RTY | Package Symbol<br>Package type symbol + number of pins<br>S03 = SOT23-3 | Termination Material<br>T: Sn<br>(Other termination styles available, contact factory for options) | Packaging<br>TE: 7" embossed plastic | Custom Value Code<br>Custom code assigned by KSE Engineering |

## applications and ratings

| Part Designation | Power Rating @ 70°C (Per Element) | T.C.R. (ppm/°C)      | Tracking T.C.R. (ppm/°C) | Resistance Tolerance   | Relative Resistance Tolerance                             | Value Range  | Maximum Working Voltage | Operating Temperature Range* |
|------------------|-----------------------------------|----------------------|--------------------------|------------------------|---|--------------|-------------------------|------------------------------|
| RTX              | 51Ω~1KΩ:<br>200mW/element         | ±25,±50,±100         | ±10                      | ±1%, ±2%,<br>±5%       | A:±0.05%,<br>B:±0.1%,C:±0.25%,<br>D:±0.5%,<br>F:±1%,G:±2% | 51Ω to 40KΩ  | 100V                    | -55°C to +125°C              |
| RTY              | 1.1KΩ:<br>50mW/element            | ±10,±25,±50,<br>±100 | ±5,±10,<br>±25,±50       | ±5%, ±2%,<br>±1%, 0.1% |   | 30Ω to 200KΩ | 100V                    | -55°C to +125°C              |

\* For custom Operating Temperature Range -55°C to +155°C, please contact factory.

## resistance ranges

| Product Code | Number of Pins | T.C.R.  | Resistance Range (Ω) (E24) and Resistance Tolerance |           |           |            |  |  |
|--------------|----------------|---------|---|-----------|-----------|------------|--|--|
|              |                |         | B: ±0.1%  | C: ±0.25% | D: ±0.05% | F: ±1%     | G: ±2%, J: ±5%                                       |  |
| RTX          | 3              | E: ±25  | —   | —         | —         | 100 ~ 40k  | R1: R2 =<br>1: 1 ~ 1: 2<br>Max. total resist. 50kΩ   |  |
|              |                | C: ±50  |   |           |           |            |  |  |
|              |                | H: ±100 |   |           |           |            |  |  |
| RTY          | 3              | T: ±10  | 1k ~ 150k   | 51 ~ 200k | 1k ~ 40k  | 100 ~ 150k | R1: R2 =<br>1: 1 ~ 1: 10<br>Max. total resist. 200kΩ |  |
|              |                | E: ±25  |   |           |           |            |  |  |
|              |                | C: ±50  |   |           |           |            |  |  |
|              |                | H: ±100 |   |           |           |            |  |  |

For further information on packaging, please refer to Appendix A.