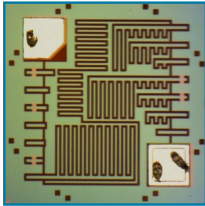
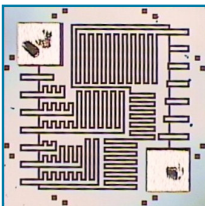


## Silicon Chip Resistors - Thin Film

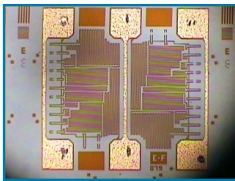
Microcross Components can offer an extensive range of Thin-Film Silicon Chip resistors, suitable for full Military or Space applications and Industrial / Commercial applications.



- Resistance between 1Ω & 1MΩ
- Resistor Tolerance ±0.1%
- TCR to ±25ppm/°C
- Power Dissipation 250mW
- TCR to ±25ppm/°C



- High Value Chips
- Resistance between 1MegΩ & 20MegΩ
- Resistor Tolerance ±0.1%
- TCR to 50ppm/°C
- Power Rating 40mW



- Resistance between 10Ω & 1MΩ
- Resistor Tolerance ±0.1%
- TCR from ±10ppm/°C
- Ra / Rb tracking, ±2ppm/°C

### Electrical Characteristics

- Operating Temperature: -55°C to +125°C
- Low TCR from 5ppm/°C
- Tight value tolerance
- Excellent life value stability
- Power capabilities up to 1W
- Optional Gold Backing for eutectic attachment

### Silicon Chip Characteristics

- High Reliability
- Small Sizes for hybrid designs including:
  - 15 x 15
  - 20 x 20
  - 22 x 22
  - 30 x 30
  - 40 x 40
- Single resistor, centre-tapped or selective multi-tap
- Terminations suitable for epoxy and eutectic attach.

## Substrate Features and Applications

### TaN on Silicon

- Assembly compatible with active devices
- General Purpose
- Moisture resistant
- Back Contact available in some sizes
- Very high resistor value

### TaN on Alumina

- Excellent for Microwave and High Frequency applications
- Solderable and bondable
- Excellent moisture resistance

**Check our on-line stock list for your current requirement. For a quote on any of these components, please contact us below.**

**For further information about our Testing and Qualification capabilities, please contact [chipcomponents@microcross.com](mailto:chipcomponents@microcross.com)**

### NiCr on Silicon

- Best for Thermal Applications
- Long-Term Stability
- Tight ratio & TCR Tracking
- Tight Absolute tolerance
- Highest value per size

### NiCr on Alumina

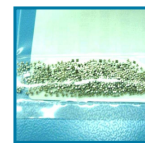
- Best long term stability
- Tight ratio & TCR tracking
- Tight Absolute tolerance
- Solderable & Wire bondable versions
- Highest Frequency

### Shipping Methods include:

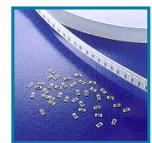
Waffle / Gel Packs



Bulk



Tape and Reel



**For further information regarding the extensive range Microcross supports, please go to <http://www.microcross.com/passives-chip-resistors.aspx> or email [chipcomponents@microcross.com](mailto:chipcomponents@microcross.com)**