



## Microcross Components offers Passive Components:

### Chip Capacitors

Microcross offers an extensive array of MIL PRF 55681 Chip capacitors with a variety of dielectrics, tailored Hi-Rel and commercial applications:

#### Tailoring for Hi-Rel Applications:

- Class I, NPO/COG dielectrics
- Operating Temp -55°C to 125°C
- 0% aging rate.
- Low linear temp coefficient
- Low loss and stable electrical properties with time, frequency and voltage
- Stable EIA Class II, X7R
- +/-15% temp coefficient
- Predictable variation of electrical properties with time, temperature and voltage.
- Can be tested in accordance to:
  - MIL PRF 55681
  - MIL PRF-123
  - MIL PRF-49467
  - SCD to enable optimum reliability.



#### Testing

Can be tested in accordance to:

- MIL PRF 55681
- MIL PRF-123
- MIL PRF-49467
- SCD to enable optimum reliability



#### Hi-Temp

Extreme heat applications, a range of surface mount devices in sizes 0805 to 7565 are available in NP0/COG that meet -55°C to 200°C.

**Please ask for our Leaded encapsulated devices in sizes 1515 to 7565 for additional high temperature capacitors**

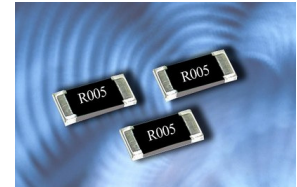
#### Sole Source Solution

**By sourcing all your active and passive components from Microcross, customers have a sole source solution for their BOM, whilst receiving full technical and customer support from our dedicated Sales and Engineering Team.**

### Chip Resistors

Microcross are DESC authorised distributor for M55342 products including:

- Standard
- Military Grade
- Surface mount
- RC Networks
- Custom-networks



Microcross can supply resistors that are:

- QPL approved, available in both thick and thin film.
- Established S-Level Reliability
- Qualified to Space Level T
- 100% Burn In
- Non-ER level C available
- Pb/Sn and PdAg terminations for Mil Applications

Wide Range of Substrates for Customer Needs including:

- TaN on Silicon
- TaN on BeO
- NiCr on Silicon
- NiCr on BeO
- TaN on Alumina
- TaN on AlN<sub>3</sub>
- NiCr on Alumina
- Ni Cr on AlN<sub>3</sub>

#### Screening

Microcross offers Hi-Reliability screening on any size or style that can be processed and/or tested to customer-specific reliability parameters.

#### Testing

100% Batch testing to Group A and Group B tests established in MIL-PRF-55342 is optional:

- Level T – Space Level to which each production lot will undergo Group A and Group B inspection. R-level reliability rate
- Level M, P, R, S – Established Reliability product levels to which failure rates will be established at 1% to 0.0001% / 1000hrs. Each lot is subjected to subgroups 1 and 2 of Group A (with the exception of 1000hrs Burn In)
- Level C – Non-established Reliability product where mandatory testing such as Groups A and B are not required

**Terminations for both Epoxy mounted and Solderable applications are available in both the thin and thick film resistors.**

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