



Flanged Resistors 250 Watts, 50Ω



General Specifications

Resistive Element	Thick film
Substrate	Beryllium oxide ceramic
Cover	Alumina ceramic
Mounting flange	Copper, nickel plated per QQ-N-290
Leads	99% pure silver (.005" thick)

Electrical Specifications

Resistance Range:	50 ohms, ± 5%
Frequency Range;	DC – 3.0 GHz
Power:	250 Watts
V.S.W.R.:	1.30 : 1

Tolerance is ±0.010", unless otherwise specified. Designed to meet or exceed applicable portions of MIL-E-5400. Operating temperature is -55°C to 150°C (see chart for derating temperatures).

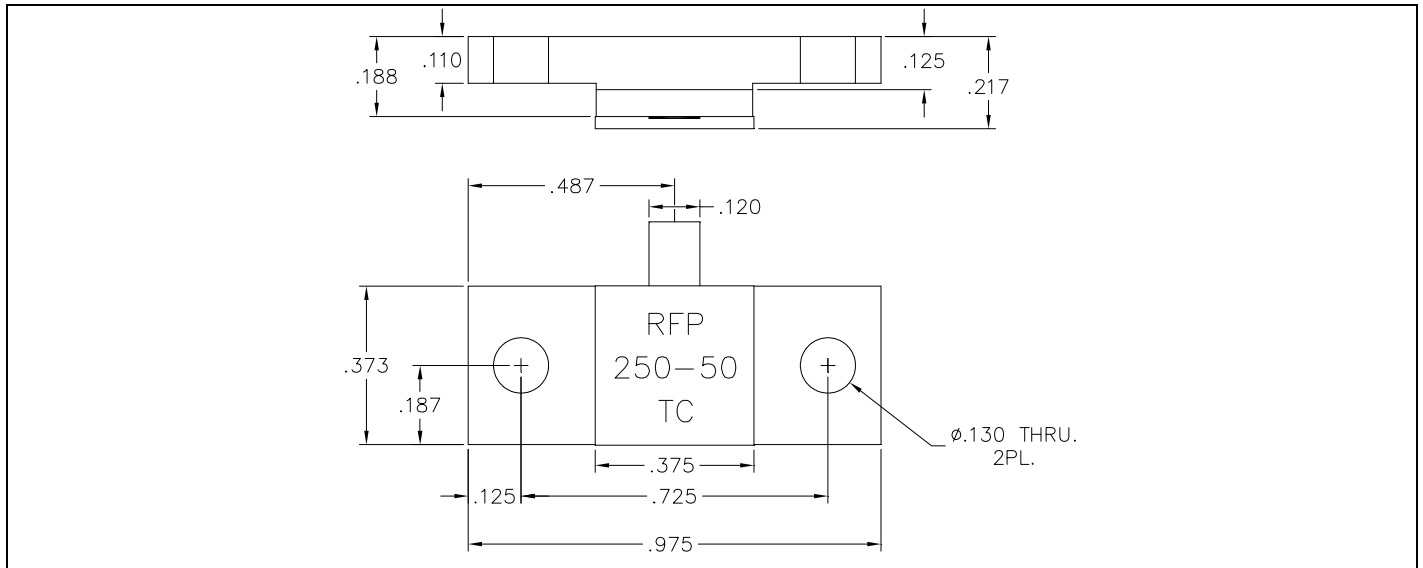
All dimensions in inches.

Specifications subject to change with out notice.

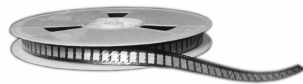
Features:

- DC – 3.0 GHz
- 250 Watts
- BeO Ceramic
- Non-Nichrome Resistive Element
- Welded Silver Leads
- Low VSWR
- 100% Tested

Outline Drawing

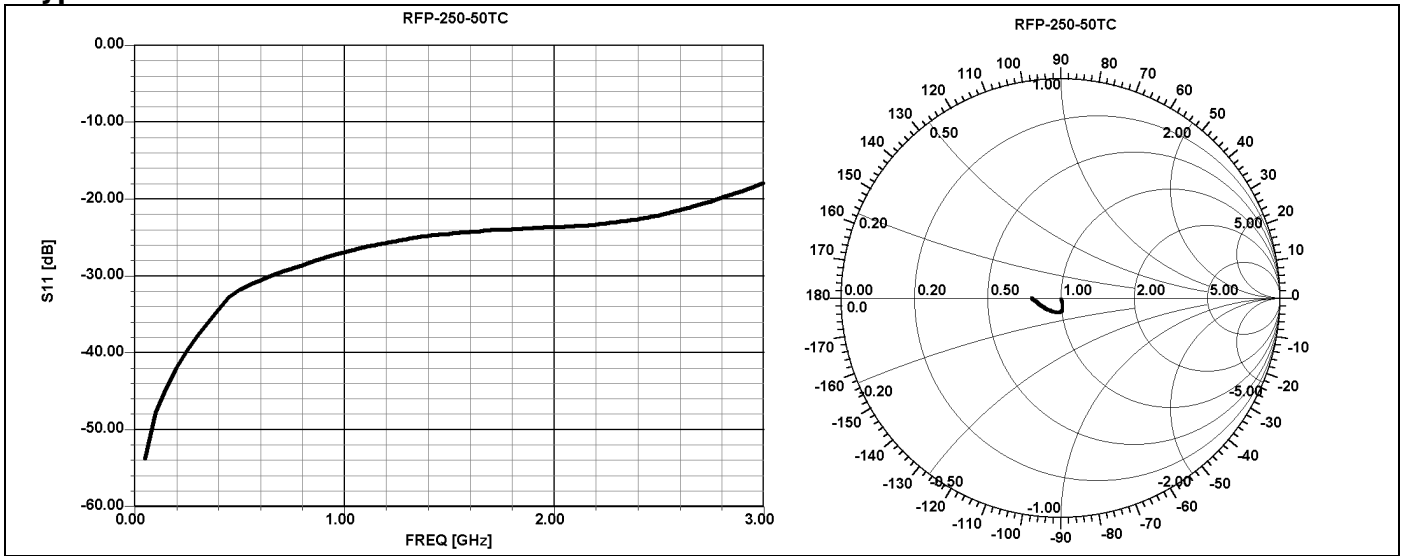


250-50TC (097) Rev B

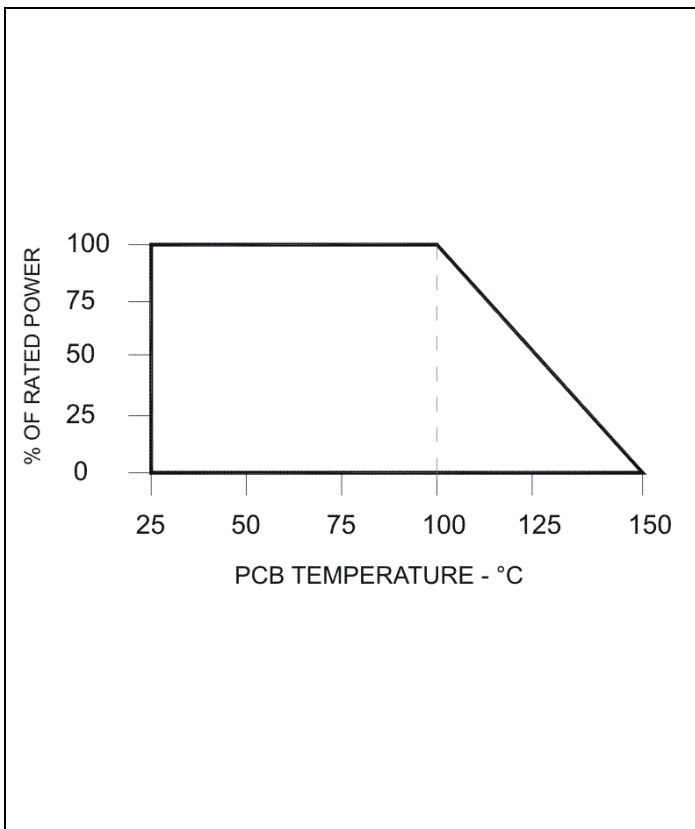




Typical Performance:



Power De-rating:



Mounting Footprint and Procedure

Suggested Mounting Procedure

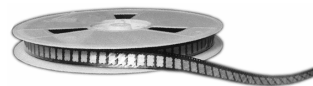
The diagrams illustrate two mounting scenarios. The left side, labeled 'SUGGESTED STRESS RELIEF METHODS', shows two cases: 'BOARD LOWER THAN LEAD' and 'BOARD EVEN WITH LEAD'. A dimension of .025 MIN (2 PLACES) is indicated for the lead length. The right side, labeled 'NOT RECOMMENDED APPLICATION', shows two cases: 'BOARD LOWER THAN LEAD' and 'BOARD HIGHER THAN LEAD'. Both diagrams include a 'SCALE: _____' label.

1. Make sure that the devices are mounted on flat surfaces (.001" under the device) to optimize the heat transfer.
2. Drill & tap the heatsink for the appropriate thread size to be used.
3. Coat heatsink with a minimum amount of high quality silicone grease (.001" max. thickness).
4. Position device on mounting surface and secure using socket head screws, flat & split washers. Torque screws to the appropriate value. Make sure that the device is flat against the heatsink. (Care should be taken to avoid upward pressure of the leads towards the lid).
5. Solder leads in place using an SN63 type solder with a controlled temperature iron (210°C).

250-50TC (97) Rev B

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