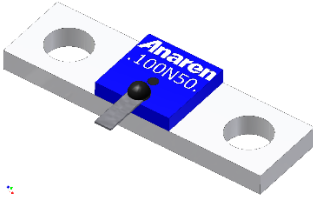




**THE DATASHEET OF  
G100N50W4**



**Flange Mount Termination**  
**100 Watts, 50Ω**



Features:

- **RoHS Compliant**
- **100 Watts**
- **DC – 3 GHz**
- **AlN Ceramic**
- **Non-Nichrome Resistive Element**
- **Low VSWR**
- **100% Tested**

Description:

The G100N50W4 is high performance Aluminum Nitride (AlN) flange mount termination intended as a cost competitive alternative to Beryllium Oxide (BeO). The termination is well suited to all cellular frequency bands such as; AMPS, GSM, DCS, PCS, PHS and UMTS. The high power handling makes the part ideal for terminating circulators and for use in power combiners. The termination is also RoHS compliant.

General Specifications:

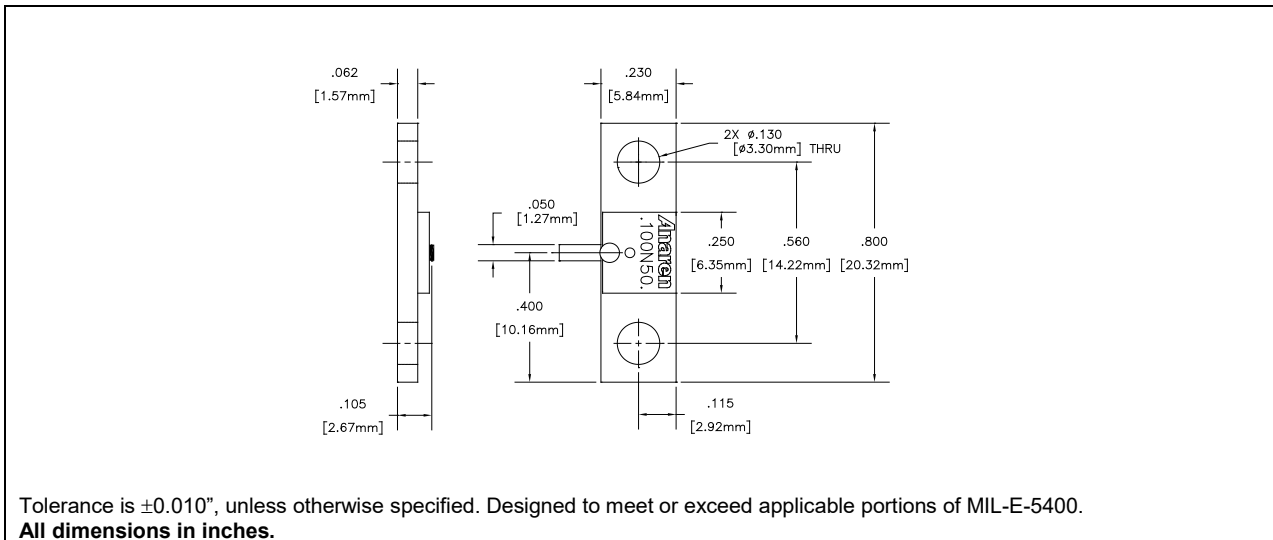
<b>Resistive Element</b>	Thick Film
<b>Substrate</b>	AlN Ceramic
<b>Mounting Flange</b>	Nickel Plated Copper
<b>Operating Temperature</b>	-55 to +150°C (see de rating chart)

Electrical Specifications:

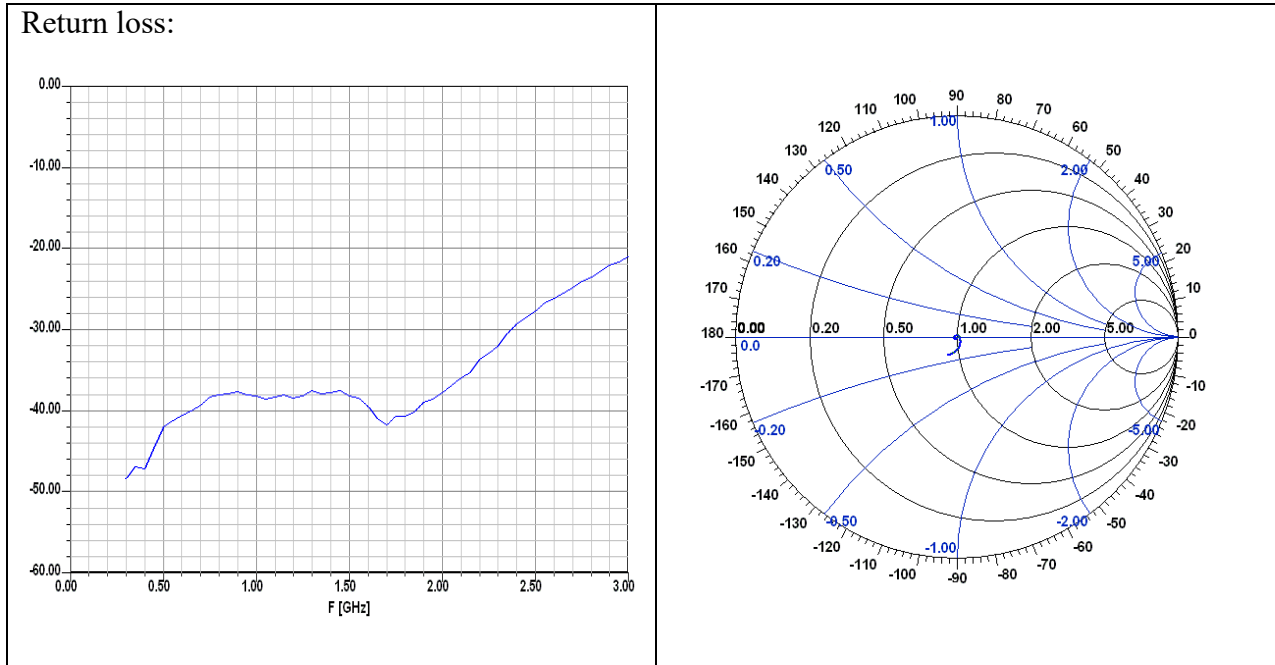
<b>Resistance Value:</b>	50 Ohms, ± 2%
<b>Power:</b>	100 Watts
<b>Frequency Range:</b>	DC – 3.0 GHz
<b>Return Loss</b>	25dB to 2.0 GHz 20dB to 3.0 GHz

Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change.**

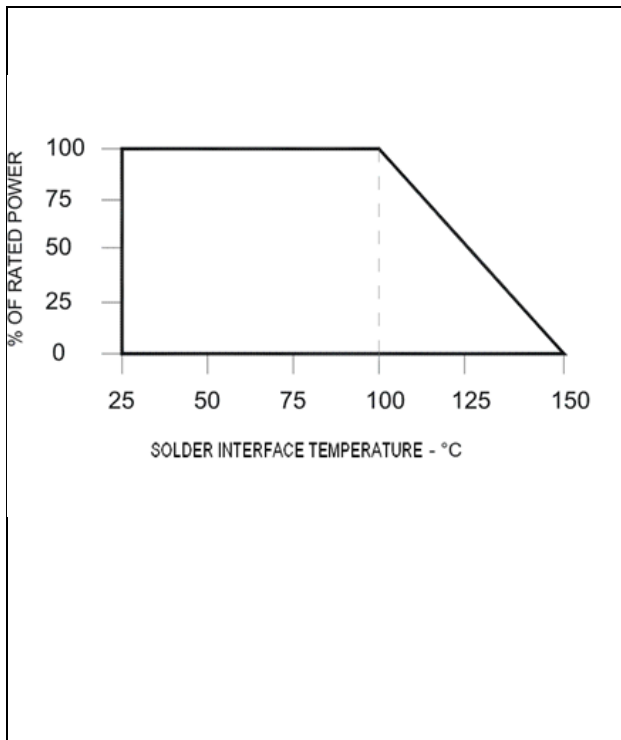
Outline Drawing:



Typical Performance:



Power de-rating:



Mounting Footprint:

**SUGGESTED STRESS RELIEF METHODS**  
SCALE: NONE

**NOT RECOMMENDED APPLICATION**  
SCALE: NONE

**SUGGESTED MOUNTING PROCEDURES:**

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 & SECURE USING SOCKET HEAD SCREWS, FLAT & SPLIT WASHER. 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 LEAD FREE TYPE SOLDER WITH A CONTROLLED TEMPERATURE IRON

Contact us:

[rf&s\\_support@ttm.com](mailto:rf&s_support@ttm.com)

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