

# Anaren

## RF Power

**RoHS  
Compliant**

### Model RFP-30N50T-S

**Aluminum Nitride Termination  
30 Watts, 50Ω**



#### General Specifications

<b>Resistive Element</b>	Thick film
<b>Substrate</b>	Aluminum Nitride ceramic
<b>Cover</b>	Alumina ceramic
<b>Lead(s)</b>	99.9% pure silver (.005" thick)
<b>Operating Temperature</b>	-55 to +150°C (see de rating chart)

Tolerance is  $\pm 0.010"$ , unless otherwise specified. Designed to meet or exceed applicable portions of MIL-E-5400. All dimensions in inches.

#### Electrical Specifications

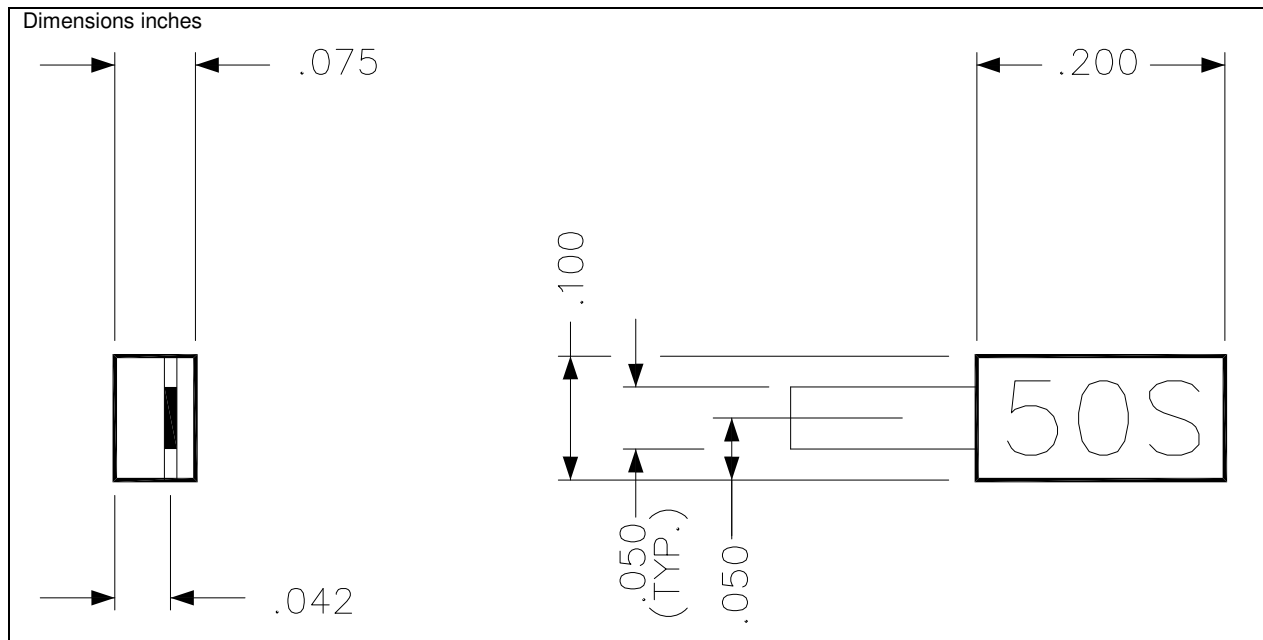
<b>Resistance Value:</b>	50 Ohms, $\pm 5\%$
<b>Power:</b>	30 Watts
<b>Frequency Range:</b>	DC – 4.0 GHz
<b>V.S.W.R.</b>	1.25:1

Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. Operating temperature is -55°C to +150°C (see chart) **Specifications subject to change.**

#### Features:

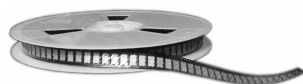
- 30 Watts
- DC – 4.0 GHz
- Aluminum Nitride Ceramic
- Welded Silver Leads
- Non-Nichrome Resistive Element
- 100% Tested
- RoHS Compliant

#### Outline Drawing



30N50T-S (097) Rev C

**Anaren**  
What'll we think of next?™

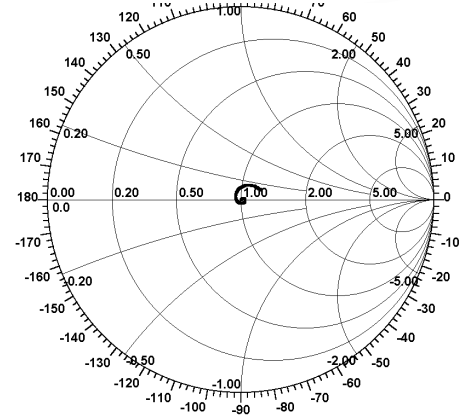
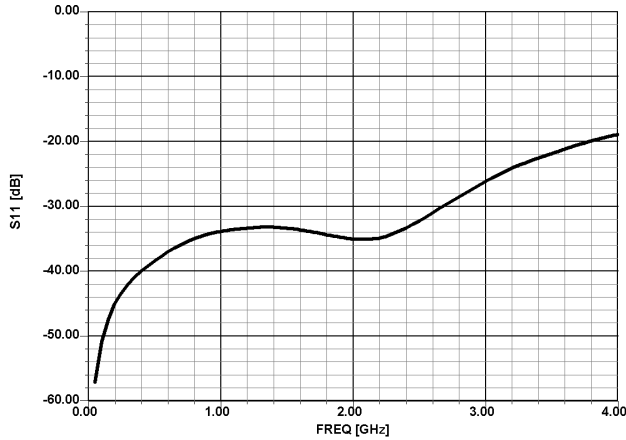


Available on Tape  
and Reel For Pick and  
Place Manufacturing.

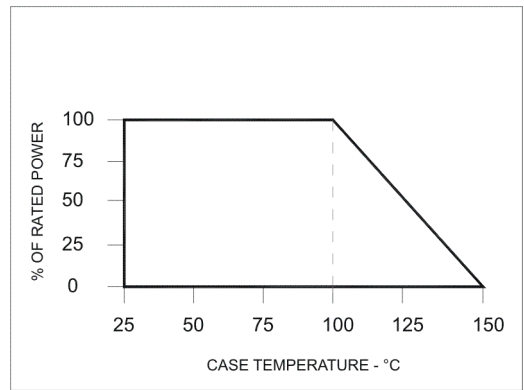
USA/Canada: (315) 432-8909  
Toll Free: (800) 544-2414  
Europe: +44 2392-232392



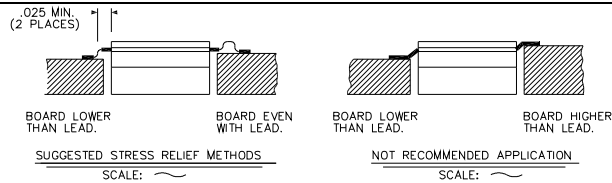
## Typical Performance:



## Derating:



## Mounting Footprint and Procedure:



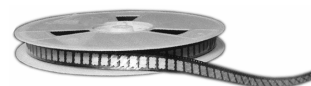
### SUGGESTED MOUNTING PROCEDURES:

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 AN APPROPRIATE TYPE SOLDER WITH A CONTROLLED TEMPERATURE IRON.

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