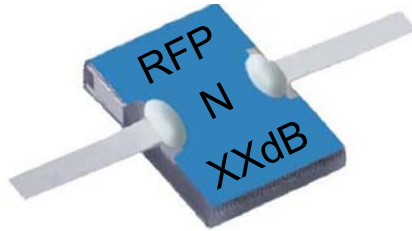




### Flangeless Attenuator 100 Watts



#### General Specifications

<b>Resistive Element</b>	Thick film
<b>Substrate</b>	Aluminum Nitride ceramic
<b>Lead(s):</b>	99.99% pure silver (.005" thick)

#### Electrical Specifications

<b>Attenuation Range:</b>	1, 2, 3, 4, 5, 6, 10, 20 or 30 dB
<b>Frequency Range;</b>	DC – See Chart
<b>Power:</b>	100 Watts
<b>VSWR</b>	1.25:1

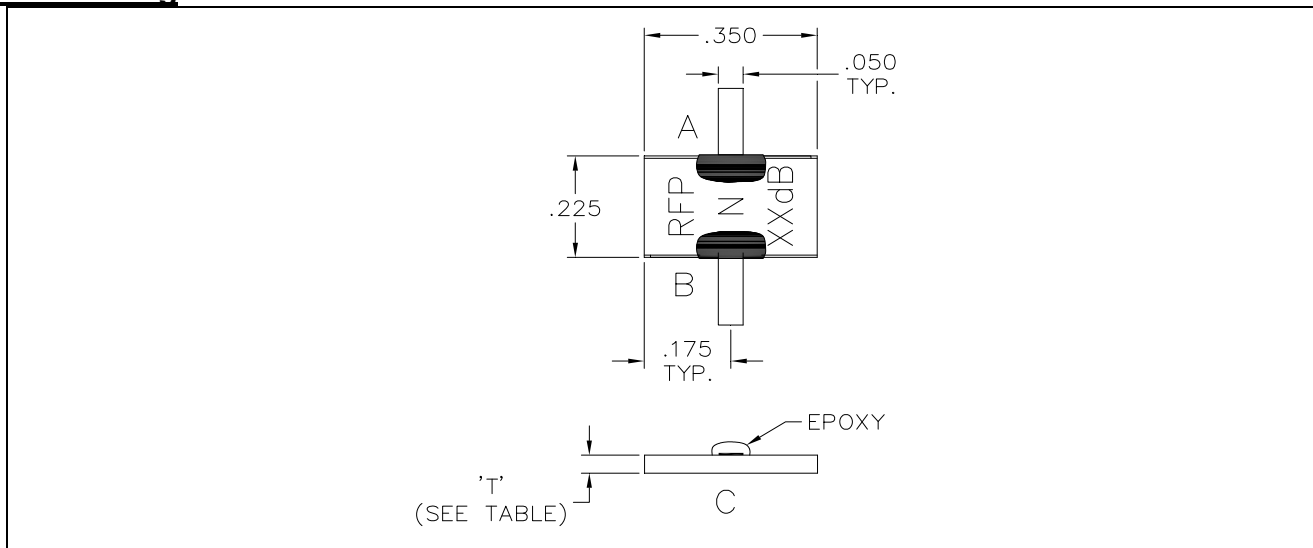
**Note:** Tolerance is  $\pm 0.010"$ , unless otherwise specified. Designed to meet or exceed applicable portions of MIL-E-5400. Operating temperature is -55°C to 150°C (see chart for derating temperatures). All dimensions in inches.

**Specifications subject to change with out notice.**

#### Features:

- DC – 3.0 GHz
- 100 Watts
- AlN Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested
- RoHS Compliant

#### Outline Drawing



100NXXAF (097) Rev E

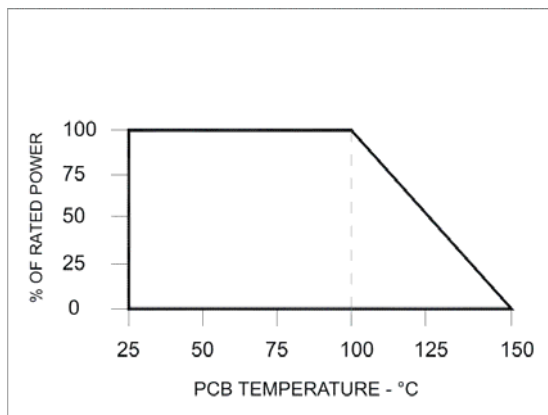




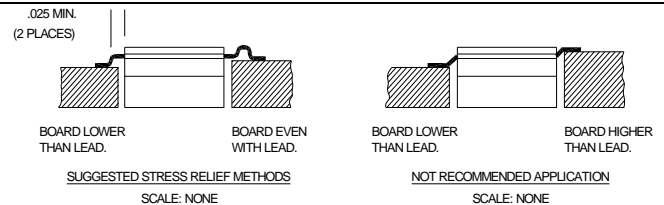
## Typical Performance:

RESISTOR VALUE CHART							
ATTENUATION	VALUE (A-B)	VALUE (A-C)	VALUE (B-C)	TOL.	FREQUENCY	R.F.P. STOCK P/N	'T1'
1dB+0.25/-0.6dB	4.8Ω	435 Ω	435 Ω	±4%	DC-2.2GHz.	RFP-100N1AF	.042
1.5dB±0.30dB	7.4Ω	294 Ω	294 Ω	±4%	DC-2.2GHz.	RFP-100N1R5AF	.042
2dB±0.40dB	9.6Ω	232 Ω	232 Ω	±4%	DC-2.2GHz.	RFP-100N2AF	.042
3dB±0.40dB	15.2Ω	155 Ω	155 Ω	±4%	DC-2.5GHz.	RFP-100N3AF	.042
4dB±0.40dB	22Ω	131Ω	131Ω	±4%	DC-2.5GHz.	RFP-100N4AF	.042
5dB±0.40dB	28.5Ω	94.7Ω	94.7Ω	±4%	DC-3.0GHz.	RFP-100N5AF	.042
6dB±0.40dB	33.7Ω	82.5 Ω	82.5 Ω	±4%	DC-3.0GHz.	RFP-100N6AF	.042
9dB±1.0dB	50.6Ω	61.3Ω	61.3Ω	±4%	DC-2.2GHz.	RFP-100N9AF	.042
10dB+1.0/-1.75dB	56.0Ω	60 Ω	60 Ω	±4%	DC-2.2GHz.	RFP-100N10AF	.042
20dB±0.50dB	81.7Ω	50.9 Ω	50.9 Ω	±4%	DC-2.0GHz.	RFP-100N20AF	.062
30dB±1.00dB	94Ω	50.1Ω	50.1Ω	±4%	DC-2.5GHz.	RFP-100N30AF	.062

## Power De-rating:



## 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 APPROPRIATE SOLDER WITH A CONTROLLED TEMPERATURE IRON.

\*\* FOR MORE DETAILS CONTACT FACTORY \*\*

100NXXAF (097) Rev E

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Available on Tape and Reel For Pick and Place Manufacturing.



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