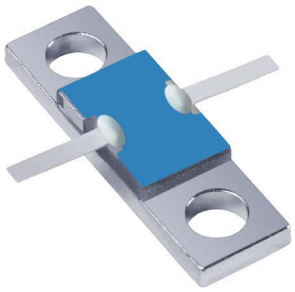
Model 100NXXAE

RF Power

Flangeless Attenuator
100 Watts



General Specifications

Resistive Element	Thick film
Substrate	Aluminum Nitride ceramic
Mounting Flange	Copper, Nickel plated per QQ-N-290
Lead(s):	99.99% pure silver (.005" thick)

Electrical Specifications

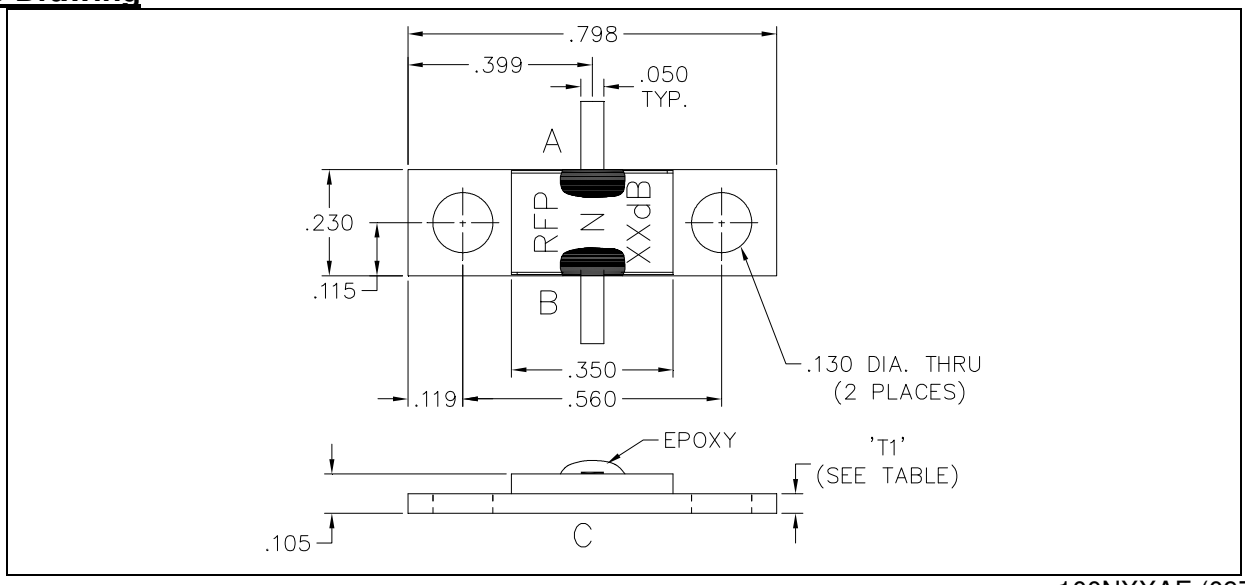
Attenuation Range:	1, 2, 3, 4, 5, 6, 10, 20 or 30 dB
Frequency Range;	DC – See Chart
Power:	100 Watts
VSWR	1.25:1

Note: Tolerance is ±0.010", unless otherwise specified. Designed to meet of exceed applicable portions of MIL-E-5400. Operating temperature is -55ºC to 150ºC (see chart for derating temperatures).
All dimensions in inches.
Specifications subject to change with out notice.

Features:

- **DC – 3.0 GHz**
- **100 Watts**
- **AIN Ceramic**
- **Non-Nichrome Resistive Element**
- **Low VSWR**
- **100% Tested**

Outline Drawing



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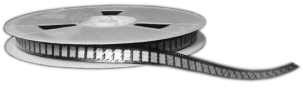


Available on Tape and Reel For Pick and Place Manufacturing.

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

Model 100NXXAE

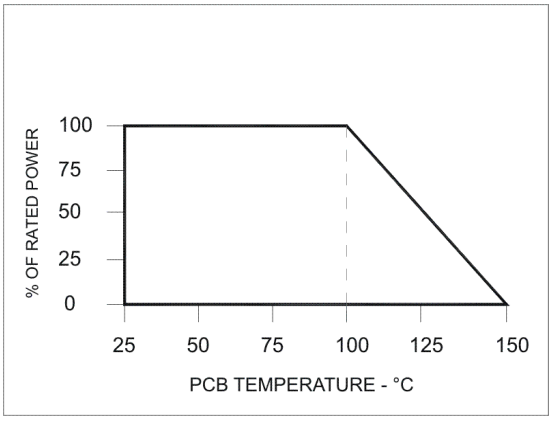
RF Power

Typical Performance:

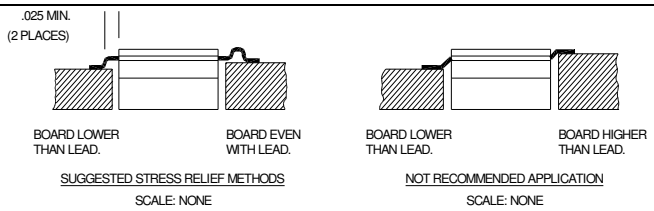
RESISTOR VALUE CHART

ATTENUATION	VALUE (A–B)	VALUE (A–C)	VALUE (B–C)	TOL.	FREQUENCY	R.F.P. STOCK P/N	'T1'
1dB±0.25dB	4.8Ω	435 Ω	435 Ω	±4%	DC–2.2GHz.	RFP–100N1AE	.042
2dB±0.40dB	9.6Ω	232 Ω	232 Ω	±4%	DC–2.2GHz.	RFP–100N2AE	.042
3dB±0.40dB	15.2Ω	155 Ω	155 Ω	±4%	DC–2.5GHz.	RFP–100N3AE	.042
4dB±0.40dB	22Ω	151Ω	151Ω	±4%	DC–2.5GHz.	RFP–100N4AE	.042
5dB±0.40dB	28.5Ω	94.7Ω	94.7Ω	±4%	DC–3.0GHz.	RFP–100N5AE	.042
6dB±0.40dB	33.7Ω	82.5 Ω	82.5 Ω	±4%	DC–3.0GHz.	RFP–100N6AE	.042
9dB±0.75dB	50.6Ω	64.1Ω	64.1Ω	±4%	DC–2.2GHz.	RFP–100N9AE	.042
10dB±0.75dB	54.0Ω	59.8Ω	59.8Ω	±4%	DC–2.2GHz.	RFP–100N10AE	.042
20dB±0.50dB	81.7Ω	50.9 Ω	50.9 Ω	±4%	DC–2.0GHz.	RFP–100N20AE	.062
30dB±1.00dB	94Ω	50.1Ω	50.1Ω	±4%	DC–2.5GHz.	RFP–100N30AE	.062

Power De-rating:



Mounting Footprint and Procedure:



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 APPROPROATE SOLDER WITH A CONTROLLED TEMPERATURE IRON.

** FOR MORE DETAILS CONTACT FACTORY **

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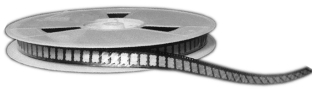

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