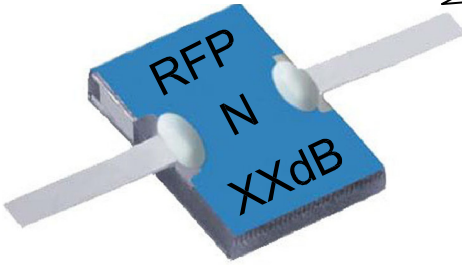


**RoHS
Compliant**

**Flangeless Attenuators
100 Watts**



General Specifications

Resistive Element	Thick film
Substrate	Aluminum nitride ceramic
Cover	Alumina ceramic
Leads	99% pure silver (.005" thick)

Features:

- DC – see chart
- 100 Watts
- Aluminum Nitride Ceramic
- Non-Nichrome Resistive Element
- Welded Silver Leads
- Low VSWR
- 100% Tested

Electrical Specifications

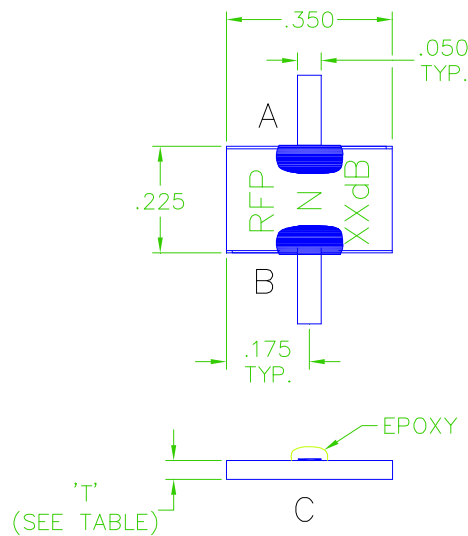
Attenuation Range:	1, 2, 3, 4, 5, 6, 9, 10, 20, 30 db
Frequency Range;	DC – see chart
Power:	100 Watts
VSWR:	1.25:1

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).

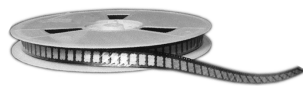
All dimensions in inches.

Specifications subject to change with out notice.

Outline Drawing



100NXXAF (097) Rev D



Specifications:



RESISTOR VALUE CHART

ATTENUATION	VALUE (A-B)	VALUE (A-C)	VALUE (B-C)	TOL.	FREQUENCY	R.F.P. STOCK P/N	THICKNESS
1dB±0.25dB	4.8Ω	435 Ω	435 Ω	±4%	DC-2.2GHz.	RFP-100N1AF	.060
1.5dB±0.30dB	7.4Ω	294 Ω	294 Ω	±4%	DC-2.2GHz.	RFP-100N1R5AF	.060
2dB±0.40dB	9.6Ω	232 Ω	232 Ω	±4%	DC-2.2GHz.	RFP-100N2AF	.060
3dB±0.40dB	15.2Ω	155 Ω	155 Ω	±4%	DC-2.5GHz.	RFP-100N3AF	.060
4dB±0.40dB	22Ω	151Ω	151Ω	±4%	DC-2.5GHz.	RFP-100N4AF	.060
5dB±0.40dB	28.5Ω	94.7Ω	94.7Ω	±4%	DC-3.0GHz.	RFP-100N5AF	.060
6dB±0.40dB	33.7Ω	82.5 Ω	82.5 Ω	±4%	DC-3.0GHz.	RFP-100N6AF	.060
9dB±0.75dB	50.6Ω	64.1Ω	63.3Ω	±4%	DC-2.2GHz.	RFP-100N9AF	.060
10dB±0.75dB	54.0Ω	59.8Ω	59.8Ω	±4%	DC-2.2GHz.	RFP-100N10AF	.060
20dB±0.50dB	248Ω	61.0 Ω	61.0 Ω	±4%	DC-2.0GHz.	RFP-100N20AF	.040
30dB±0.50dB	790Ω	53.0 Ω	53.0 Ω	±4%	DC-2.5GHz.	RFP-100N30AF	.040

Mounting Procedure:

Power derating:

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. POSITION DEVICE ON MOUNTING SURFACE AND SOLDER IN PLACE USING AN APPROPRIATE TYPE SOLDER.
3. SOLDER LEADS IN PLACE USING AN APPROPRIATE TYPE SOLDER WITH A CONTROLLED TEMPERATURE IRON. KEEP LEAD LENGTH AS SHORT AS POSSIBLE USING A SUGGESTED STRESS RELIEF METHOD.

Power derating graph:
Y-axis: % OF RATED POWER (0 to 100)
X-axis: PCB TEMPERATURE - °C (25 to 150)
The graph shows 100% power up to 100°C, then a linear derate to 0% at 150°C.

100NXXAF (097) Rev D

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Available on Tape and Reel For Pick and Place Manufacturing.



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