

ATTENUATOR TEMPERATURE VARIABLE

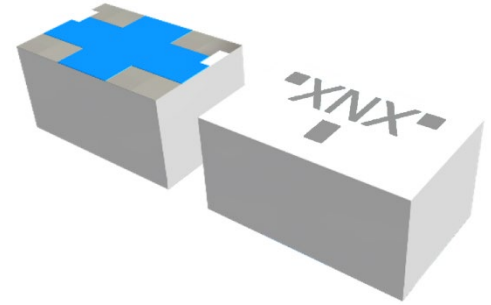
DATASHEET PART SERIES: AN7-XNXF

Sheet 1 of 2
Doc# AN7-XNXF-1011505ECO-085574
Revision M

ORDERING INFORMATION

PART IDENTIFIER: AN7-XNXF

- X-Temperature Coefficient of Attenuation 1X10⁻³ dB/dB/°C.
- N-Attenuation Shift Negative.
- X-dB Value.



SPECIFICATIONS

1.0 ELECTRICAL

Nominal Impedance:	50 Ω.
Frequency Range:	DC – 6.0 GHz.
Attenuation Values Available:	1-10 dB in 1 dB increments.
Attenuation Accuracy:	@ 25°C: ± 0.5 dB @ 1 GHz.
VSWR:	1.30:1 Max @ 1 GHz.
Input Power	200 Milliwatts Full Rated Power To 125°C, Derated Linearly to 0 Watts at 150°C.
Temperature Coefficient of	-0.003, -0.004, -0.005, -0.006, -0.007, -0.009, -0.011 dB/dB/°C.
Temperature Coefficient Tolerance:	± 0.001 dB/dB/°C.

2.0 ENVIRONMENTAL

Operating Temperature:	-55°C to +150°C.
------------------------	------------------

3.0 MARKING

Unit Marking:	dB Value (X), Direction of Shift (N) And TCA Shift (X).
---------------	---

4.0 QUALITY ASSURANCE

Sample Inspect Per ANSI/ASQC Z1.4 General Inspection, Level II, AQL=1.0.
Visual and Mechanical Examination for Conformance to Outline Drawing Requirements
Sample Inspection (Destructive Testing).

Select three (3) units from lot and measure DCA every 20°C over the temperature range of
-55°C to +125°C; Calculate using linear regression, the slope of the curve.
Calculate TCA using the following formula:

$$TCA = \frac{\text{Slope}}{\text{Attenuation @ 25°C}}$$

Inspection in accordance with 824W107.
Test Data Requirements:
No Data Required for Customer.
Data Retention – 24 Months.

5.0 PACKAGING

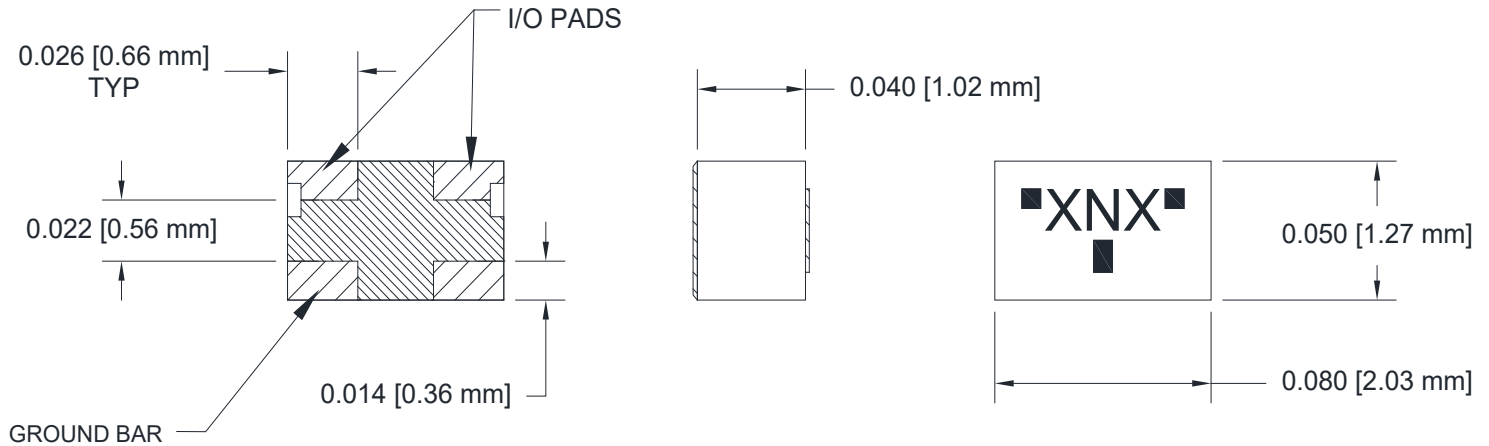
Standard:	Tape and Reel.
-----------	----------------

6.0 MECHANICAL

Substrate Material:	Alumina.
Terminal Material:	Thick Film, Lead Free Plating.
Workmanship	Per MIL-PRF-55342.
Resistive Element:	Thick Film.
Metric Dimensions:	Provided for reference only.

ATTENUATOR TEMPERATURE VARIABLE

DATASHEET PART SERIES: AN7-XNXF

Sheet 2 of 2
Doc# AN7-XNXF-1011505ECO-085574
Revision MUnless Otherwise Specified: TOLERANCE: X.XXX = ± 0.005 .

7.0 SUGGESTED MOUNTING FOOTPRINT

Part Number	Inches							mm						
	A	B	C	D	S	S2	W	A	B	C	D	S	S2	W
AN7-XNXF	0.028	0.018	0.028	0.028	0.024	0.013	0.083	0.71	0.46	0.71	0.71	0.61	0.33	2.11

