

ATTENUATOR TEMPERATURE VARIABLE

DATASHEET PART SERIES: AN7-XNXF

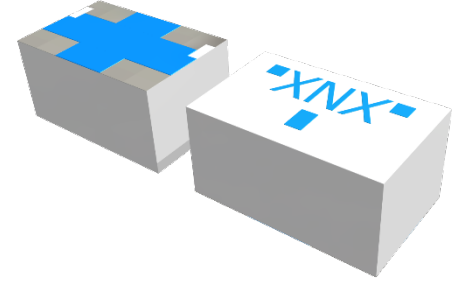
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Doc# AN7-XNXF-1011505ECO-083699
Revision L

ORDERING INFORMATION

Part Identifier:

AN7-XNXF

X-Temperature Coefficient of Attenuation 1×10^{-3} dB/dB/°C
 N-Attenuation Shift Negative
 X-dB Value



SPECIFICATIONS

1.0 ELECTRICAL

Nominal Impedance:	50 ohms
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
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3.0 MARKING

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

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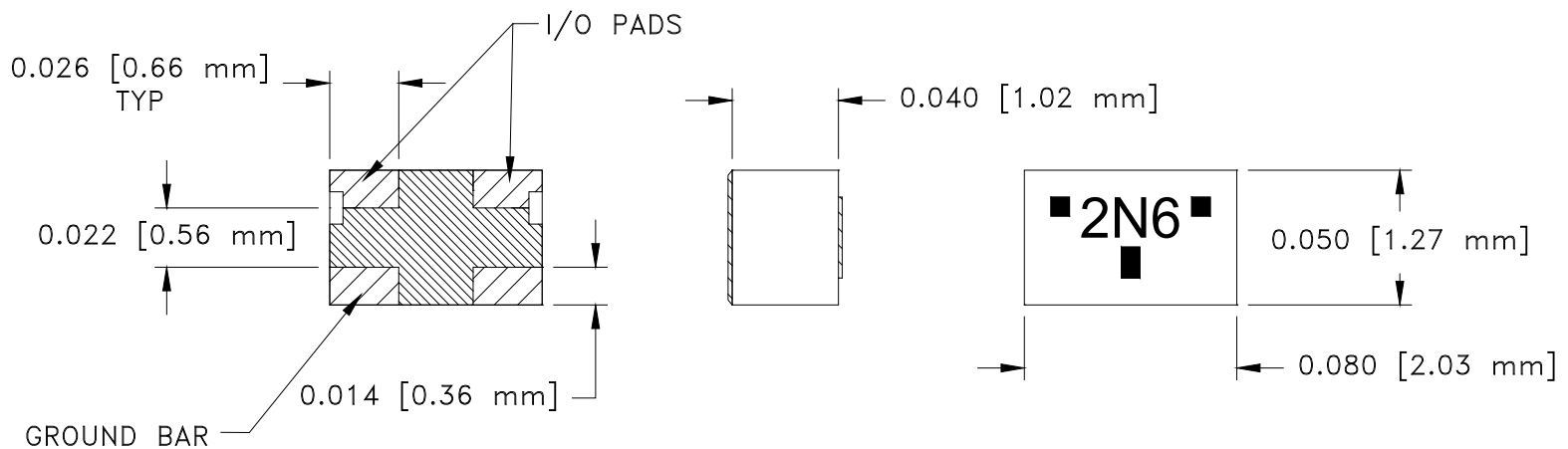
5.0 PACKAGING

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

Unless Otherwise Specified: TOLERANCE: X.XXX = ± 0.005

7.0 SUGGESTED MOUNTING FOOTPRINT

	Inches							mm						
Part Number	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

