

ATTENUATOR TEMPERATURE VARIABLE

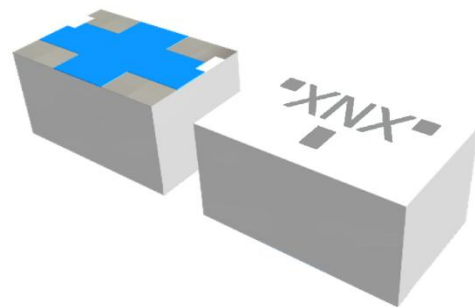
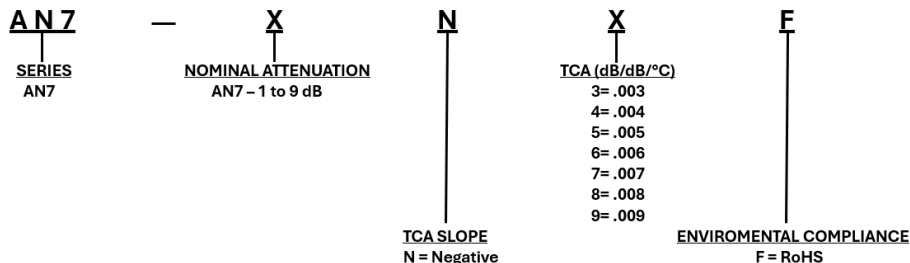
DATASHEET PART SERIES: AN7-XNXF

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ECO-139582
Revision N

ORDERING INFORMATION

PART IDENTIFIER:



SPECIFICATIONS

1.0 ELECTRICAL

- Nominal Impedance: 50 Ω.
- Frequency Range: DC – 6.0 GHz.
- Attenuation Values Available: See table below
- 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 Attenuation: See table below
- Temperature Coefficient Tolerance: ± 0.001 dB/dB/°C.

dB Value	Temperature Coefficient of Attenuation (dB/dB/°C) "Shift"						
	-0.003	-0.004	-0.005	-0.006	-0.007	-0.008	-0.009
1dB	X	X	X				
2dB	X	X	X	X	X	X	X
3dB	X	X	X	X	X	X	X
4dB	X	X	X	X	X	X	X
5dB	X	X	X	X	X	X	X
6dB	X	X	X	X	X	X	X
7dB	X	X	X	X	X	X	X
9dB							X

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.

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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:

$$TCA = \frac{Slope}{Attenuation @ 25^{\circ}C}$$

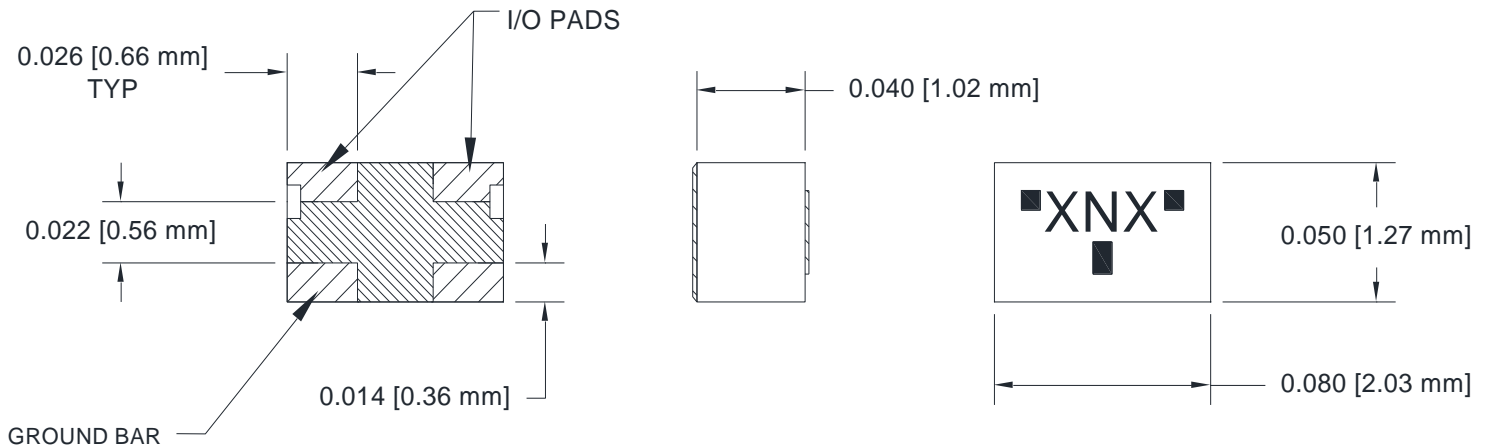
Inspection in accordance with 824W107.
Test Data Requirements:
No Data Required for Customer.
Data Retention – 24 Months.

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.



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

7.0 SUGGESTED MOUNTING FOOTPRINT

Inches	mm
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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

