ATTENUATOR TEMPERATURE VARIABLE



SHEET 1 OF 3

Dwg 1011505



EN 16-0840

DATA SHEET

PART SERIES: AN7-XNXF

FEATURES

Temperature Variable Compact Package Wideband Performance Passive Gain Compensation Rugged Construction MIL-PRF-3933

APPLICATIONS

Power Amplifiers Instrumentation Mobile Networks Point-to-Point Radios Satellite Communications Military Radios Up/Down Converters



GENERAL DESCRIPTION

EMC Technology is the leading authority in temperature variable attenuators. Thermopad[®] temperature variable attenuators have been a highly reliable passive solution for over temperature gain compensation for more than 20 years. All Thermopad[®] products can be qualified for high-reliability and space applications.

ORDERING INFORMATION

Part Identifier:

AN7-XNXF

X-Temperature Coefficient of Attenuation 1 x 10⁻³ dB/dB/°C

- N-Attenuation Shift Negative
- _ X-dB Value

SPECIFICATIONS

1.0 ELECTRICAL

2.0 ENVIRONMENTAL

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

3.0 MARKING

Unit Marking:

Orientation "T"

4.0QUALITY 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).

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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:

est Data Requirements:

No Data Required for Customer

Data Retention – 24 Months

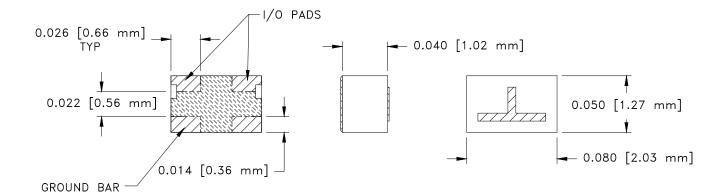
5.0 PACKAGING

Standard:

Tape and Reel

6.0 MECHANICAL

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



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

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EN 16-0840 Revision K

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7.0 SUGGESTED MOUNTING FOOTPRINT

		Inches						mm						
Part Number	Α	В	С	D	S	S2	W	А	В	С	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

