ATTENUATOR TEMPERATURE VARIABLE



SHEET 1 OF 2



EN 14-2398

DATA SHEET

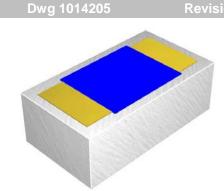
PART SERIES: AN11-XNXF

FEATURES

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

APPLICATIONS

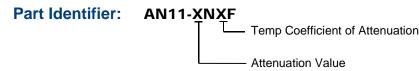
Power Amplifiers Instrumentation Mobile Networks Point-to-Point Radios Satellite Communications Military Radios Up/Down Converters



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



SPECIFICATIONS

1.0 ELECTRICAL

Nominal Impedance:	50 ohms
Frequency Range:	DC - 6 GHz
Attenuation Values Available:	1 and 2 dB
Attenuation Accuracy:	@ 25°C: ± 0.5 dB
VSWR:	1.30: typ 1.60:1 max
Input Power	0.1 Watts
Temperature Coefficient of Attenuation:-0.003 and -0.005 dB/dB/°C	
Temperature Coefficient Tolerance:	± 0.001 dB/dB/ºC

2.0 ENVIRONMENTAL

Operating Temperature:	-55°C to +150°C
Non-operating Temperature:	-65°C to +150°C

3.0 MARKING

Unit Marking:

None

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:

ATTENUATOR TEMPERATURE VARIABLE





DATA SHEET PART SERIES: AN11-XNXF

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

Inspection in accordance with 824W170 and 824F036, for commercial grade product.

Test Data Requirements:

No Data Required for Customer

Data Retention - 24 Months

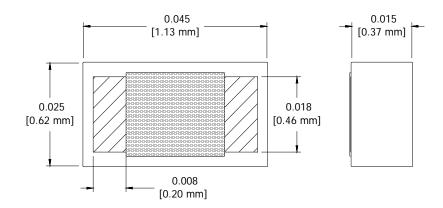
5.0 PACKAGING

Standard:

Tape and Reel

6.0 MECHANICAL

Substrate Material: Terminal Material: Resistive Element: Alumina Thick Film ROHS Compliant Thick film



Unless Otherwise Specified: TOLERANCE: $X.XX = \pm 0.XX$ $X.XXX = \pm 0.XXX$