

ATTENUATOR TEMPERATURE VARIABLE

DATASHEET PART SERIES: TVAXX00XXXW1

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Doc# TVAXX00XXXW1-1003995ECO-084245
Revision N

ORDERING INFORMATION

Part Identifier: TVAXX00XXXW1

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



SPECIFICATIONS

1.0 ELECTRICAL

Nominal Impedance: 50 Ω .
 Frequency Range: DC - 6GHz.
 Attenuation Values Available: 1-10dB in 1dB increments.
 Attenuation Accuracy: @ 25°C: ± 0.5 dB @ 1GHz.
 VSWR: 1.30:1 MAX. @ 1GHz.
 Input Power: Negative Shifting: 2 watts cw.
 Positive Shifting: 0.25 watts cw.
 Full Rated Power to 125°C, Derated Linearly to 0 watts @ 150°C.
 Temperature Coefficient of Attenuation: -0.003, -0.004, -0.005, -0.006, -0.007, and -0.009 dB/dB/°C.
 +0.003, +0.005, +0.006, and +0.007 dB/dB/°C.
 Temperature Coefficient Tolerance: ± 0.001 dB/dB/°C.

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:

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

Inspection in accordance with 824W107

Test Data Requirements:
 No Data Required for Customer.
 Data Retention – 24 Months.

5.0 PACKAGING

Standard: Tape & Reel

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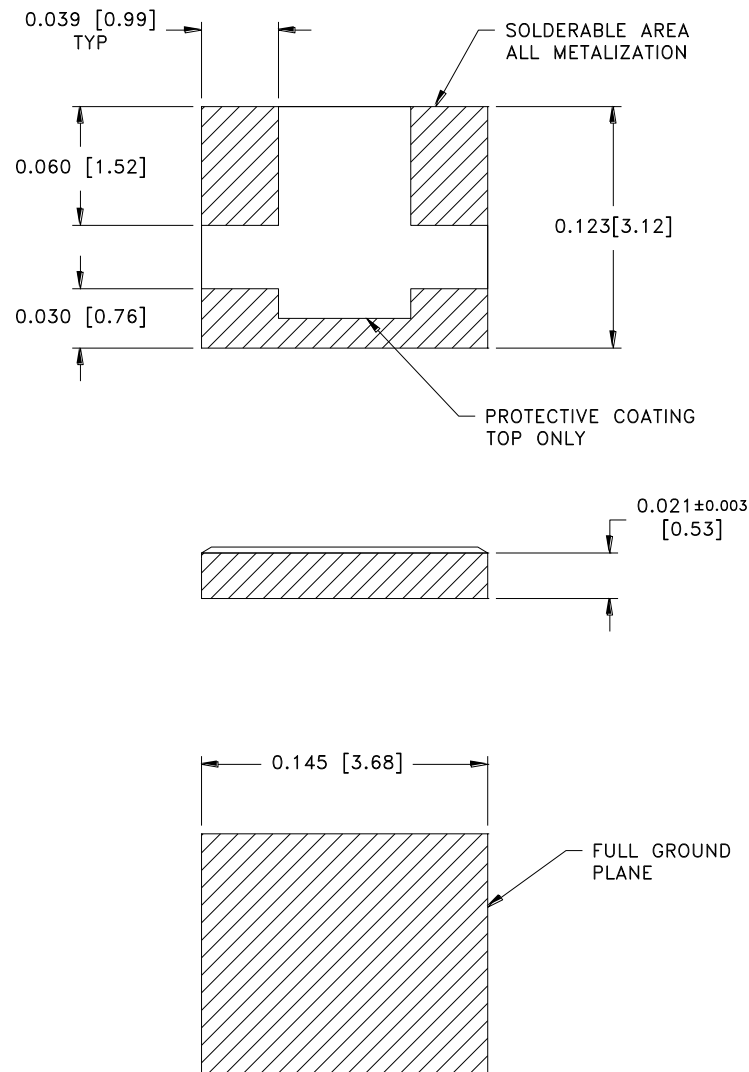
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6.0 MECHANICAL

Substrate Material:	Alumina, MIL-I-10.
Terminal Material:	Thick Film, Nickel Barrier, Solder Plated.
Workmanship	Per MIL-PRF-55342.
Ground Plane:	Thick Film, Nickel Barrier, Solder Plated.
Resistive Element:	Thick Film.
Metric Dimensions:	Provided for reference only.



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