

## ATTENUATOR TEMPERATURE VARIABLE

DATASHEET PART SERIES: TVAXX00X0XWB1

Sheet 1 of 2  
Doc# TVAXX00X0XWB1-1004005ECO-084245  
Revision D

## ORDERING INFORMATION

Part Identifier: TVAXX00X0XWB1

## SPECIFICATIONS

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



## 1.0 ELECTRICAL

Nominal Impedance: 50  $\Omega$ .  
 Frequency Range: DC-6.0 GHz.  
 Attenuation Values Available: 1-10dB in 1dB increments.  
 Attenuation Accuracy: @ 25°C:  $\pm 0.5$  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.  
 Temperature Coefficient Tolerance:  $\pm 0.001$  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 and Reel.

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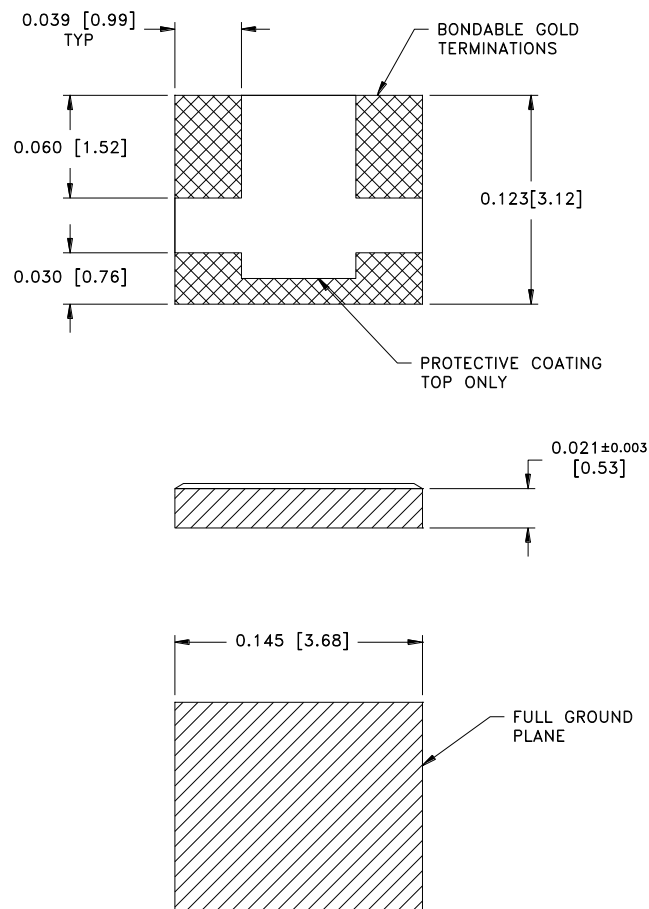
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## 6.0 MECHANICAL

Substrate Material:	Alumina, 96% MIL-I-10.
Terminal Material:	Thick Film Barrier, Bondable Gold.
Workmanship	Per MIL-PRF-55342.
Ground Plane:	Thick Film.
Resistive Element:	Thick Film.
Metric Dimensions:	Provided for reference only.



Unless Otherwise Specified: X.XXX = ± 0.005.