


## ATTENUATOR TEMPERATURE VARIABLE

DATASHEET PART SERIES: TVAXX00XXXG

Sheet 1 of 2  
Doc# TVAXX00XXXG-1007885ECO-084245  
Revision L

## ORDERING INFORMATION

Part Identifier: TVAXX00XXXG



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

## SPECIFICATIONS

## 1.0 ELECTRICAL

Nominal Impedance:	50 $\Omega$ .
Frequency Range:	DC-6 GHz.
Attenuation Values Available:	1-10 dB in 1 dB increments.
Attenuation Accuracy:	@ 25°C: $\pm 0.5$ dB @ 1 GHz.
VSWR:	1.30:1 Max @ 1 GHz.
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, 0.007 and 0.008 dB/dB/°C.
Temperature Coefficient Tolerance:	$\pm 0.001$ dB/dB/°C.

## 2.0 ENVIRONMENTAL

Operating Temperature:	-55°C to +150°C.
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## 3.0 MARKING

Unit Marking:	dB value (X), direction of shift (N or P) and TCA shift (X).
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## 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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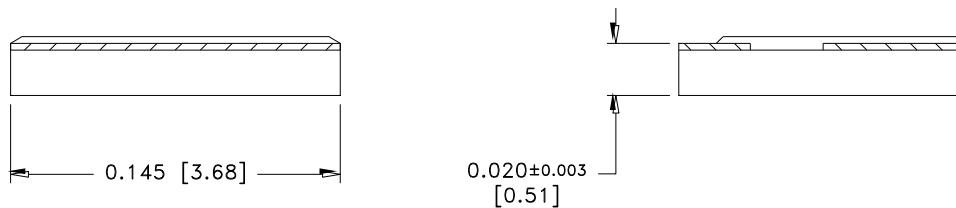
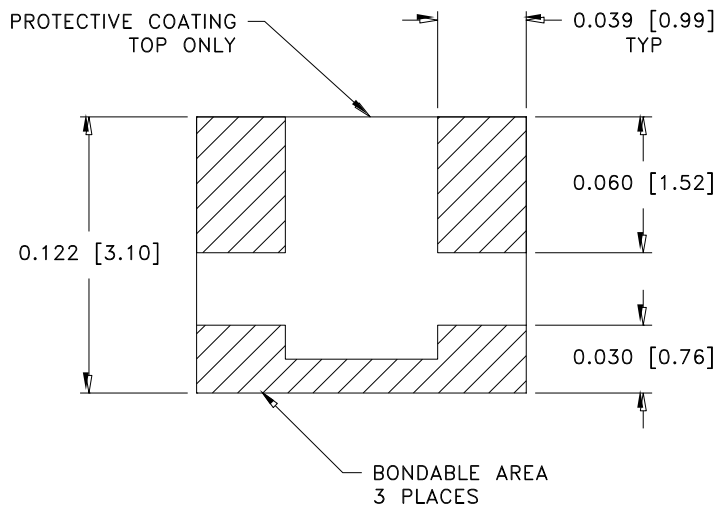
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## 6.0 MECHANICAL

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



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