

## ATTENUATOR TEMPERATURE VARIABLE

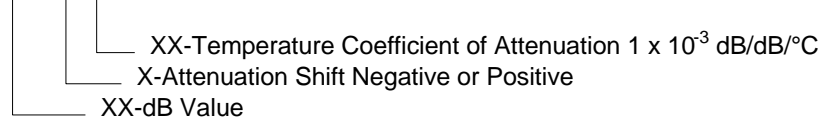
DATASHEET PART SERIES: TVAXX00XXX

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Doc# TVAXX00XXX-1001175ECO-084245  
Revision AB

## ORDERING INFORMATION

## Part Identifier:

TVAXX00XXX



## 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 @ 1GHz.
VSWR:	1.30:1 Max @ 1GHz.
Input Power	Negative Shift 2 Watts Full Rated Power To 125°C Linearly To 0 Watts @ 150°C. Positive Shift: .25 Watts 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, 0.004, 0.005, 0.006, 0.007, 0.008, 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.
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## 3.0 MARKING

Unit Marking:	dB Value (XX), 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.

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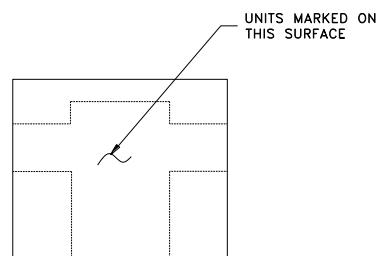
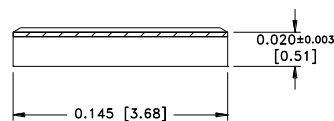
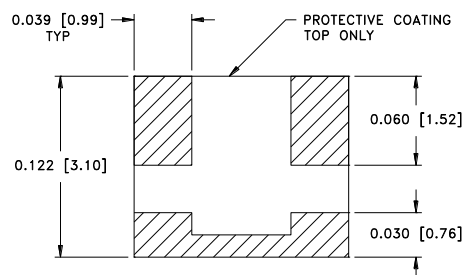
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## 5.0 PACKAGING

Standard: Tape and Reel.

## 6.0 MECHANICAL

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



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

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7.0 FOOTPRINT

Part Number	Inches						mm					
	A	B	C	D	S	W	A	B	C	D	S	W
TVAXX00XXX	0.043	0.065	0.065	0.025	0.040	0.150	1.09	1.65	1.65	0.64	1.02	3.81

