

# ATTENUATOR TEMPERATURE VARIABLE



DATA SHEET

PART SERIES: TVAXX00XXXW3S

SHEET 1 OF 3  
Dwg 1008145

EN 16-0736  
Revision AF

## 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

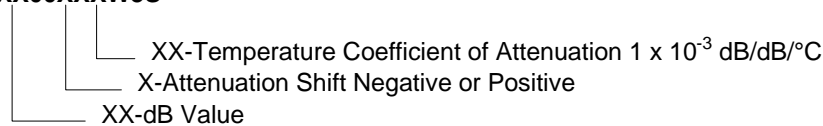


## GENERAL DESCRIPTION

EMC Technology is the leading authority in temperature variable attenuators. Thermopad<sup>®</sup> temperature variable attenuators have been a highly reliable passive solution for over temperature gain compensation for more than 20 years. All Thermopad<sup>®</sup> products can be qualified for high-reliability and space applications.

## ORDERING INFORMATION

**Part Identifier:** TVAXX00XXXW3S



## SPECIFICATIONS

### 1.0 ELECTRICAL

Nominal Impedance:	50 ohms
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:	-0.001, -0.002, -0.003, -0.004, -0.005, -0.006, -0.007, and -0.009 dB/dB/°C 0.003, 0.005, 0.006, 0.007, 0.008, 0.009 dB/dB/°C
Temperature Coefficient Tolerance:	$\pm 0.001$ dB/dB/°C

### 2.0 ENVIRONMENTAL

Operating Temperature:	-55°C to +150°C
------------------------	-----------------

### 3.0 MARKING

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

### 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.



# ATTENUATOR TEMPERATURE VARIABLE



DATA SHEET

PART SERIES: TVAXX00XXXW3S

SHEET 3 OF 3  
Dwg 1008145

EN 16-0736  
Revision AF

## 7.0 FOOTPRINT

Part Number	Inches						mm					
	A	B	C	D	S	W	A	B	C	D	S	W
TVAXX00XXXW3S	0.043	0.063	0.067	0.035	0.032	0.152	1.09	1.60	1.70	0.89	0.81	3.86

