# ATTENUATOR TEMPERATURE VARIABLE



EN 15-0306

**Revision** A

#### DATA SHEET

#### PART SERIES: 42TVAXX00NXX

#### **FEATURES**

Temperature Variable Coaxial Compact Package Wideband Performance Passive Compensation Rugged Construction MIL-PRF-3933

### **APPLICATIONS**

Mobile Networks Instrumentation Power Amplifiers Base Stations Remote Radio Head Satellite Communications Military Radio



SHEET 1 OF 3

1013565

### **GENERAL DESCRIPTION**

Florida RF Labs 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



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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:

 $TCA = \frac{Slope}{Attenuation @ 25^{\circ}C}$ 

Inspection in accordance with 824W170 and 824F036, for commercial grade product.

### 5.0 PACKAGING

Standard Packaging:

Tube

### **6.0 MECHANICAL**

Body and Nut Material:	Passivated Stainless Steel
Body and Nut Finish:	Passivated Stainless Steel
Center Contact Material:	Beryllium Copper
Center Contact Finish:	Gold
Dielectric:	PTFE
Resistive Element:	Thick Film
SMA Interface:	Female/Male
Torque:	7.0 – 8.0 lbf.in
Metric Dimensions:	Provided for reference only



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7.0 MECHANICAL LAYOUT



smiths microwave Form 423F114 Rev-

