SURFACE MOUNT TEMPERATURE VARIABLE ATTENUATOR





DATA SHEET PART SERIES: WTVAXX00NXXSMTF SHEET 1 OF 2

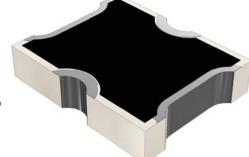
EN 14-1483

FEATURES

APPLICATIONS

Temperature Variable **Power Amplifiers** Compact Package Instrumentation Wideband Performance Mobile Networks Passive Gain Compensation Point-to-Point Radios Rugged Construction Satellite Communications MIL-PRF-3933

Military Radios **Up/Down Converters**



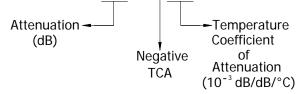
GENERAL DESCRIPTION

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

ORDERING INFORMATION

Part Identifier:

WTVAXXOONXXSMTF



SPECIFICATIONS

1.0 ELECTRICAL

Nominal Impedance: 50 ohms Frequency Range: DC - 20 GHz Power Rating: 200 MilliWatts CW

Attenuation Values Available: 2 - 10 dB

± 0.5 dB @ DC - 15 GHz: ± 1.0 dB @ 15-20 GHz Attenuation Accuracy:

VSWR: 1.25:1 MAX @ 25°C AND 1 GHz

1.70:1 MAX @ 25 °C

Power Handling: 200mW

2 W (10 µs pulse width, 1 % duty cycle) Peak Power:

2.0 ENVIRONMENTAL

Operating Temperature: -55°C to +150°C -65°C to +150°C Non-operating Temperature: Temperature Coefficient: ± 0.001 dB/dB/C

3.0 MARKING

Unit Marking: None

smiths microwave Form 423F119 Rev-

Cage Codes: 24602 / 2Y194 Specifications are Subject to Change Without Notice www.emc-rflabs.com • +1 772-286-9300

AS 9100, ISO 9001 and 14001 Certified

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SHEET 2 OF 2 Dwg 1013065 EN 14-1483

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.
- Test Data Requirements: No Data Required for Customer Data Retention - 24 Months

5.0 PACKAGING

Standard: Tape and Reel

6.0 MECHANICAL

Substrate Material: Alumina

Terminal Material: Thick Film, Lead Free Plating

Ground Plane: Thick Film Resistive Element: Thick Film

Metric Dimensions: Provided for reference only

