SURFACE MOUNT TEMPERATURE VARIABLE ATTENUATOR



DATA SHEET

PART SERIES: WTVAXX00NXXSMTF

SHEET 1 OF 2

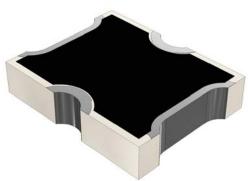
EN 14-1483

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**

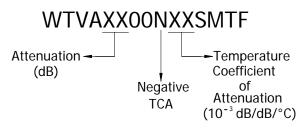


GENERAL DESCRIPTION

EMC Technology is the leading authority in temperature variable attenuators. Thermopad® 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:



SPECIFICATIONS

1.0 ELECTRICAL

VSWR:

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: 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)

2.0 ENVIRONMENTAL

Peak Power:

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

3.0 MARKING

Unit Marking:

None

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4.0 QUALITY ASSURANCE

Sample Inspect Per ANSI/ASQC Z1.4 General Inspection, Level II, AQL=1.0.

- 1. 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.
- 3. Calculate TCA using the following formula:

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

- 4. Inspection in accordance with 824W170 and 824F036, for commercial grade product.
- 5. Test Data Requirements:
- No Data Required for Customer Data Retention – 24 Months

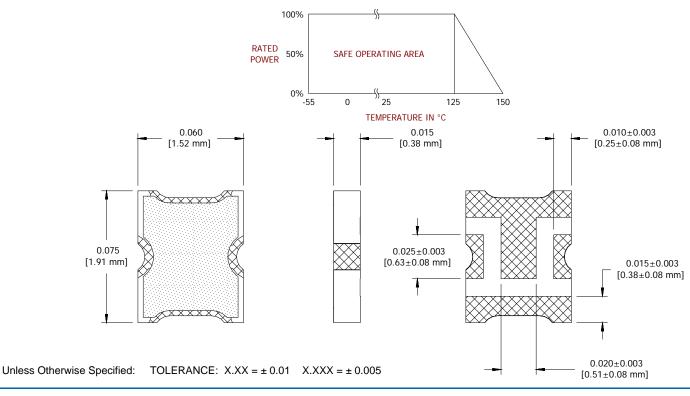
5.0 PACKAGING

Standard:

Tape and Reel

6.0 MECHANICAL

Substrate Material: Terminal Material: Ground Plane: Resistive Element: Metric Dimensions: Alumina Thick Film, Lead Free Plating Thick Film Thick Film Provided for reference only



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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