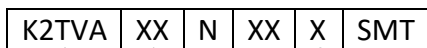
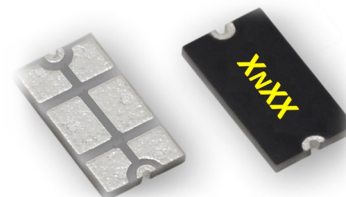


ORDERING INFORMATION

PART IDENTIFIER:



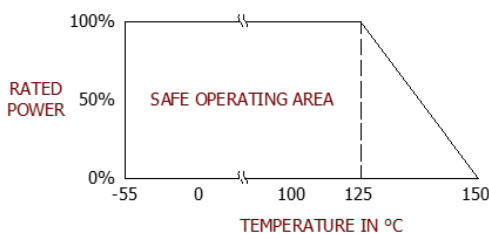
- ▶ Surface Mount.
- ▶ Operating Frequency: 1 (17-22 GHz), 3 (27-32 GHz).
- ▶ Temperature Coefficient of Attenuation [dB/dB/°C].
- ▶ Negative TCA.
- ▶ Attenuation [dB].
- ▶ Product Family Identifier.



SPECIFICATIONS

1. ELECTRICAL:

- Nominal Impedance: 50 Ω.
- Frequency Range: Band 1: 17 – 22 GHz, Band 3: 27 – 32 GHz.
- Attenuation Values Available: See table below.
- Attenuation Accuracy: ±0.5 dB Typical, ±1.0 dB Max.
- VSWR: 1.25:1 Typical; 1.50:1 Max.
- Input Power: 200 Milliwatts CW full rated power to 125°C, derated linearly to 0 Milliwatts at 150°C (see derating chart).



Temperature Coefficient of Attenuation: See table below.

dB Value	Band 1		Band 3	
	Temperature Coefficient of Attenuation (dB/dB/°C) "Shift"		Temperature Coefficient of Attenuation (dB/dB/°C) "Shift"	
	-0.005	-0.007	-0.005	-0.007
3dB		X	X	
4dB		X	X	X
5dB		X	X	X
6dB		X	X	X

Temperature Coefficient Tolerance: ±0.001 dB/dB/°C Typical, ±0.002 dB/dB/°C Max.

2. ENVIRONMENTAL:

- Operating Temperature: -55°C to +125°C.
- Non-operating Temperature: -65°C to +150°C.
- Temperature Coefficient: Refer to TCA value of Part Number.

3. MARKING:

Unit Marking: dB Value (XX), Direction of Shift (N), TCA Shift (X), and Operating Frequency Code (X).

4. QUALITY ASSURANCE:

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

Visual and Mechanical Examination for Conformance to Outline Drawing Requirements.

Sample Screening Inspection (Destructive Testing):

Select three (3) units from lot and measure attenuation at the appropriate frequency range at the temperatures -55°C, +25°C, +125°C;

Calculate using linear regression, the slope of the curve.

Calculate TCA using the following formula:

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

Inspection in accordance with 824W107.

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

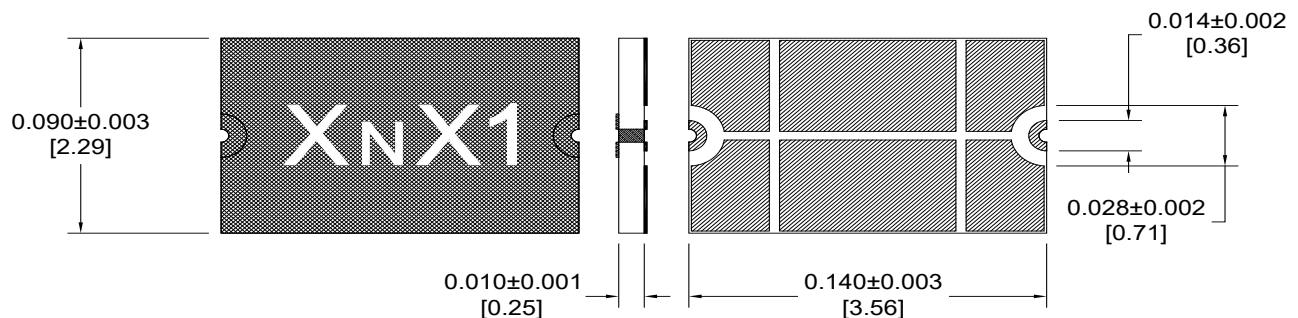
5. PACKAGING:

Standard: Waffle or Tape & Reel.

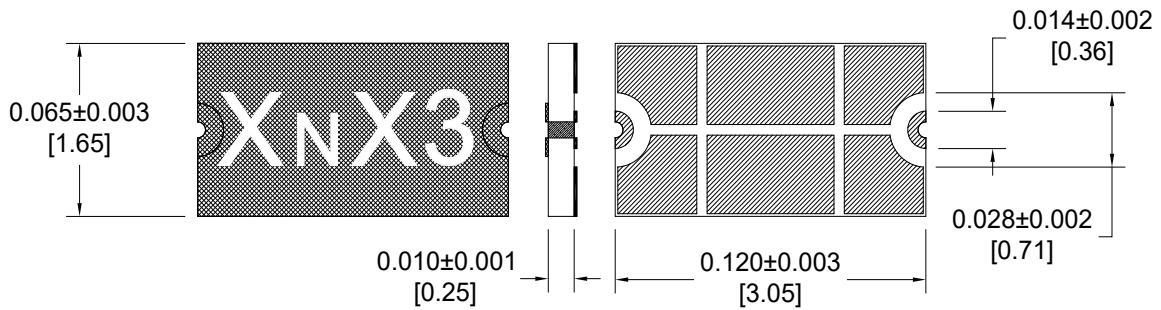
6. MECHANICAL:

Substrate Material: Alumina.
 Terminal Material: Thick Film, Nickel Barrier, Solder Plated.
 Ground Plane: Thick Film, Nickel Barrier, Solder Plated.
 Resistive Element: Thick Film.
 Workmanship: Per MIL-PRF-55342.
 Metric Dimensions: Provided for reference only.

BAND 1 MECHANICAL OUTLINE:

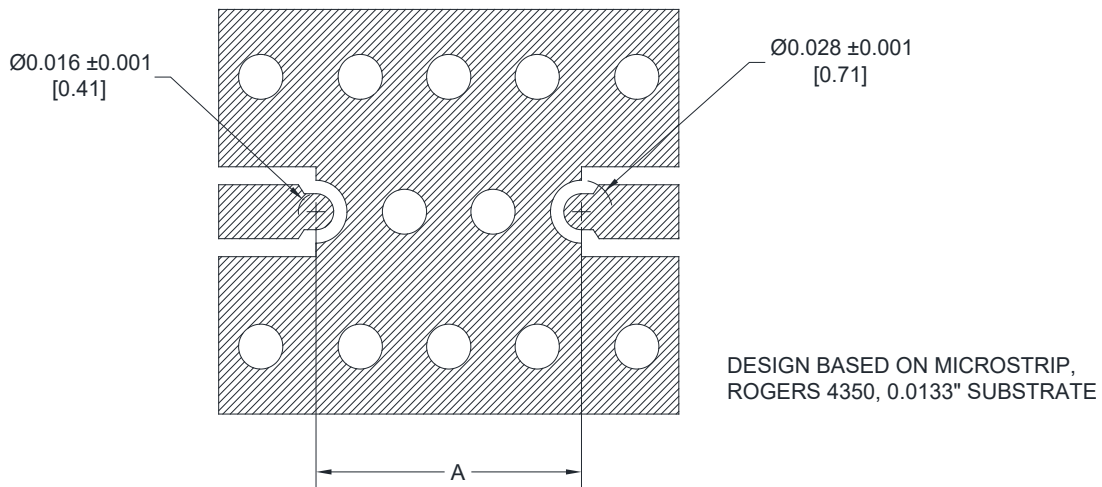


BAND 3 MECHANICAL OUTLINE:



Unless Otherwise Specified: TOLERANCE: X.XX = ± 0.01 X.XXX = ± 0.005

7. SUGGESTED MOUNTING FOOTPRINT:



FREQUENCY BAND	DIMENSION	INCHES	MILLIMETERS
Band 1	A	0.140	3.56
Band 3	A	0.120	3.05

8. EQUIVALENT MODEL:

