

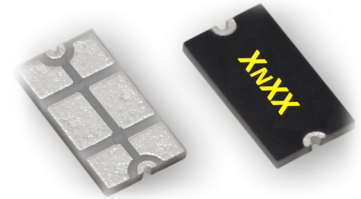


ORDERING INFORMATION

PART IDENTIFIER:

K2TVA	XX	N	XX	X	SMT	F
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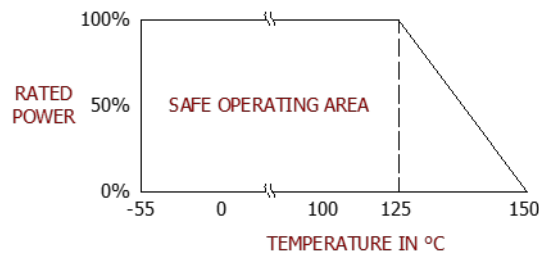
- ROHS Compliant.
- Surface Mount.
- Operating Frequency: 1 (17-22 GHz), 3 (27-32 GHz).
- Temperature Coefficient of Attenuation [dB/dB/°C].
- Negative TCA.
- Attenuation [dB].
- Product Family Identifier.



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 = Slope / Attenuation @ 25°C

Inspection in accordance with 824W107.

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

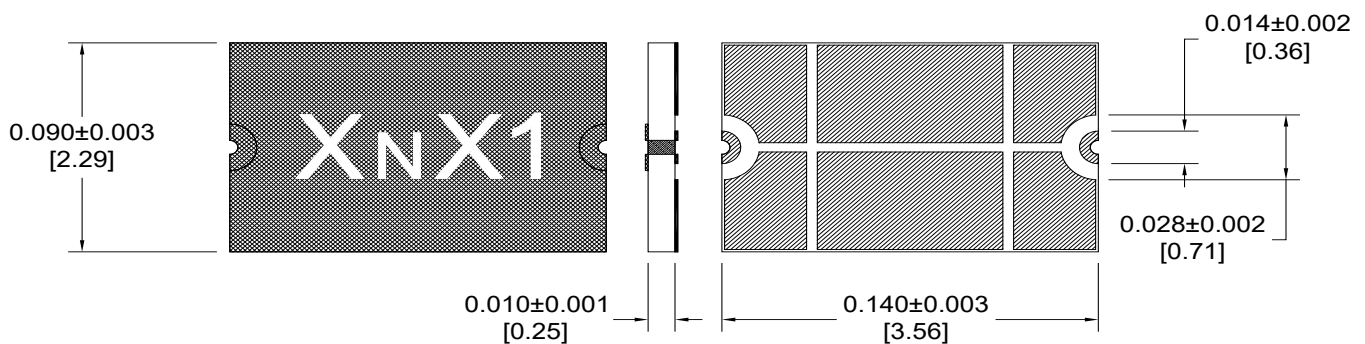
5. PACKAGING:

Standard: Waffle or Tape & Reel.

6. MECHANICAL:

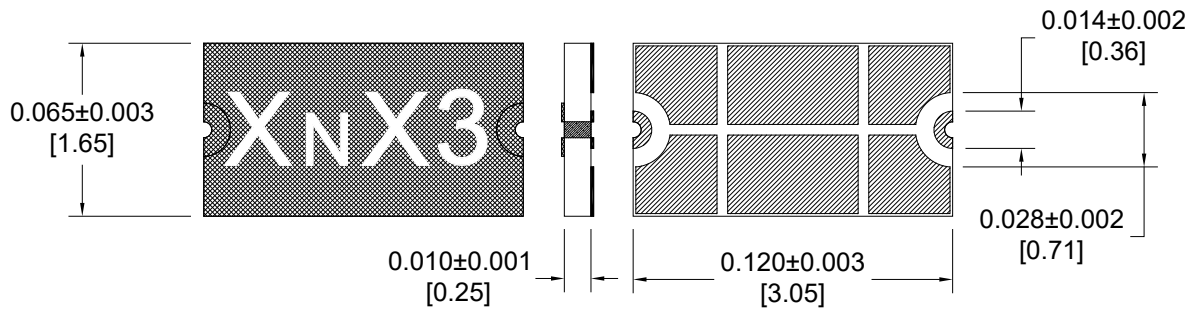
- Substrate Material: Alumina.
Terminal Material: Ag over Ni Plated.
Ground Plane: Ag over Ni Plated.
Resistive Element: Thick Film.
Workmanship: Per MIL-PRF-55342.
Metric Dimensions: Provided for reference only.

BAND 1 MECHANICAL OUTLINE:



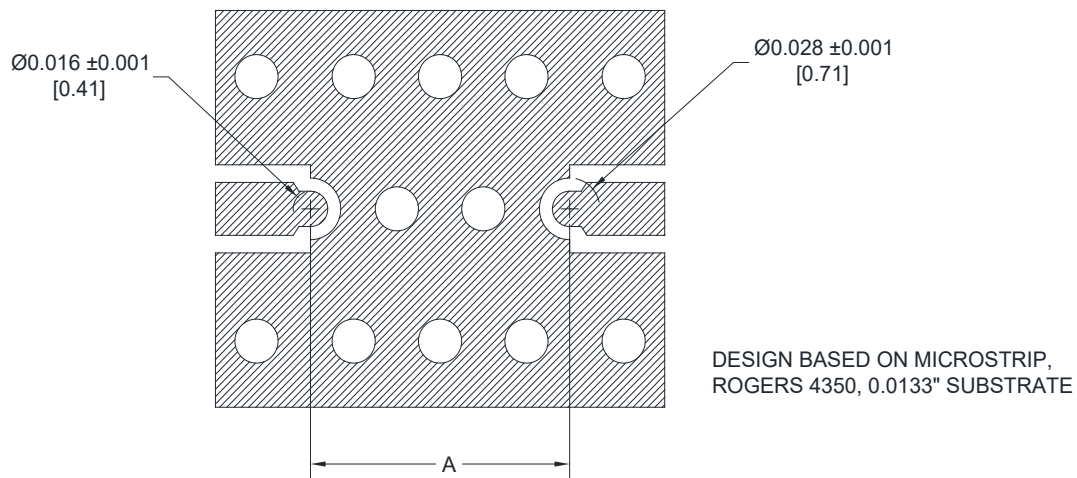


BAND 3 MECHANICAL OUTLINE:



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:

