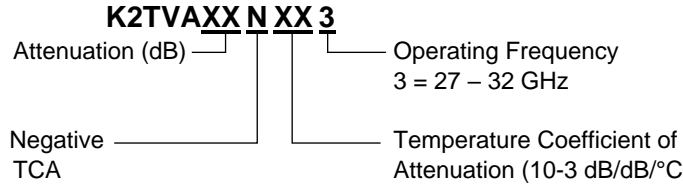


ORDERING INFORMATION

PART IDENTIFIER:



SPECIFICATIONS

1.0 ELECTRICAL

- Nominal Impedance: 50 Ω
- Frequency Range: 27 – 32 GHz
- Attenuation Values Available: 3 – 6 dB in one dB increments. See table below
- Attenuation Accuracy: ±0.5 dB Typical, ±1.0 dB Max
- VSWR: 1.25:1 Typical; 1.40:1 Max
- Input Power: 200 Milliwatts
- Temperature Coefficient of Attenuation: -0.005 and -0.007 dB/dB/°C. See table below
- Temperature Coefficient Tolerance: ±0.001 dB/dB/°C Typical, ±0.002 dB/dB/°C Max

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

2.0 ENVIRONMENTAL

- Operating Temperature: -55°C to +150°C
- Non-operating Temperature: -65°C to +150°C
- Temperature Coefficient: ± 200 PPM / °C Max

3.0 MARKING

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

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 attenuation from 27-32 GHz 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 824W107

Test Data Requirements:

No Data Required for Customer

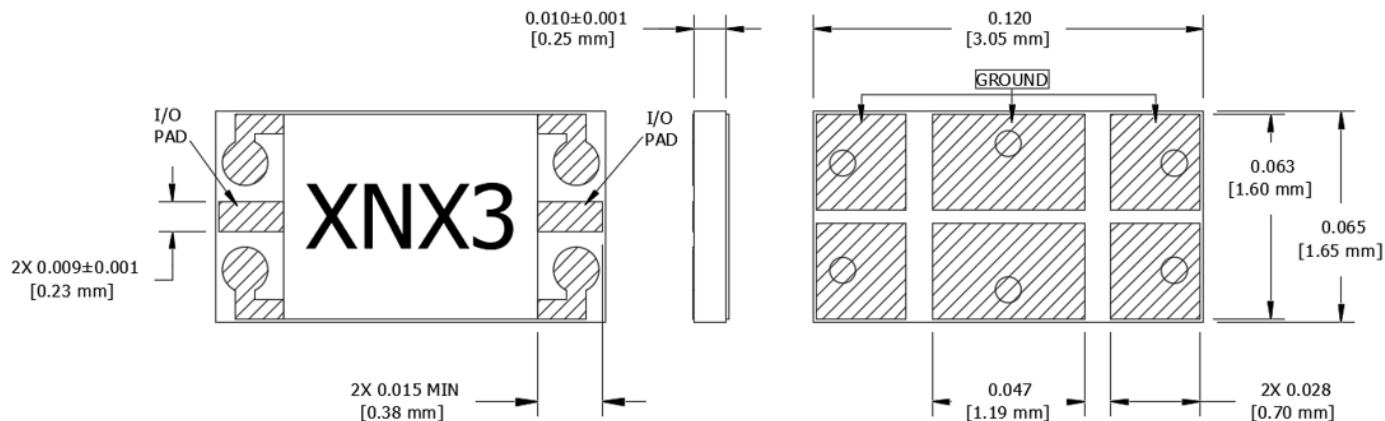
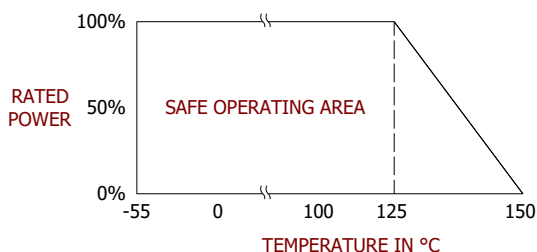
Data Retention – 24 Months

### 5.0 PACKAGING

Standard: Waffle  
Optional: Tape & Reel.

### 6.0 MECHANICAL

Substrate Material: Alumina  
Terminal Material: Thick Film Bondable Gold  
Ground Plane: Solderable Gold  
Resistive Element: Thick Film  
Workmanship: PER MIL-PRF-55342  
Metric Dimensions: Provided for reference only



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

## 7.0 SUGGESTED MOUNTING

Refer to Application Note AN0006 Figure 7, for Recommended Mounting Instructions.

CIRCUIT SCHEMATIC

