



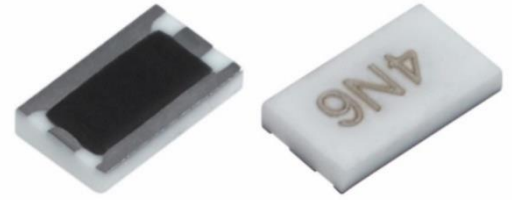
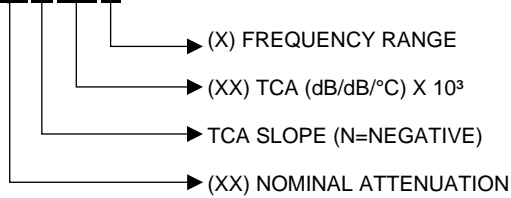
ATTENUATOR TEMPERATURE VARIABLE CHIP (K-BAND)

DATASHEET PART SERIES: KTVAXXNXXXSMT

Sheet 1 of 2
Doc# KTVAXXNXXXSMT-1013375ECO-084243
Revision A

ORDERING INFORMATION

PART IDENTIFIER: KTVAXXNXXXSMT



SPECIFICATIONS

1.0 ELECTRICAL

Nominal Impedance:	50 Ω
Frequency Range:	5=18-27GHz, 6=27-36GHz
Attenuation Values Available:	2-6dB in 1dB increments
Attenuation Accuracy:	@ 25°C: ± 1.0 dB
VSWR:	1.50:1 Maximum
Input Power	100 mW @ 100°C, Derated linearly to 0 watt @ 150°C
Temperature Coefficient of Attenuation:	-0.003, -0.005, -0.006 and -0.007 dB/dB/°C
Temperature Coefficient Tolerance:	±0.001dB/dB/°C Note: -0.007 ±0.002

2.0 ENVIRONMENTAL

Operating Temperature:	-55°C to +150°C
Storage Temperature:	-55°C to +150°C

3.0 MARKING

Unit Marking:	Attenuation Value and Shift
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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:

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

Inspection in accordance with 824W107

Test Data Requirements:

No Data Required for Customer

Data Retention – 24 Months

5.0 PACKAGING

Standard:	Waffle
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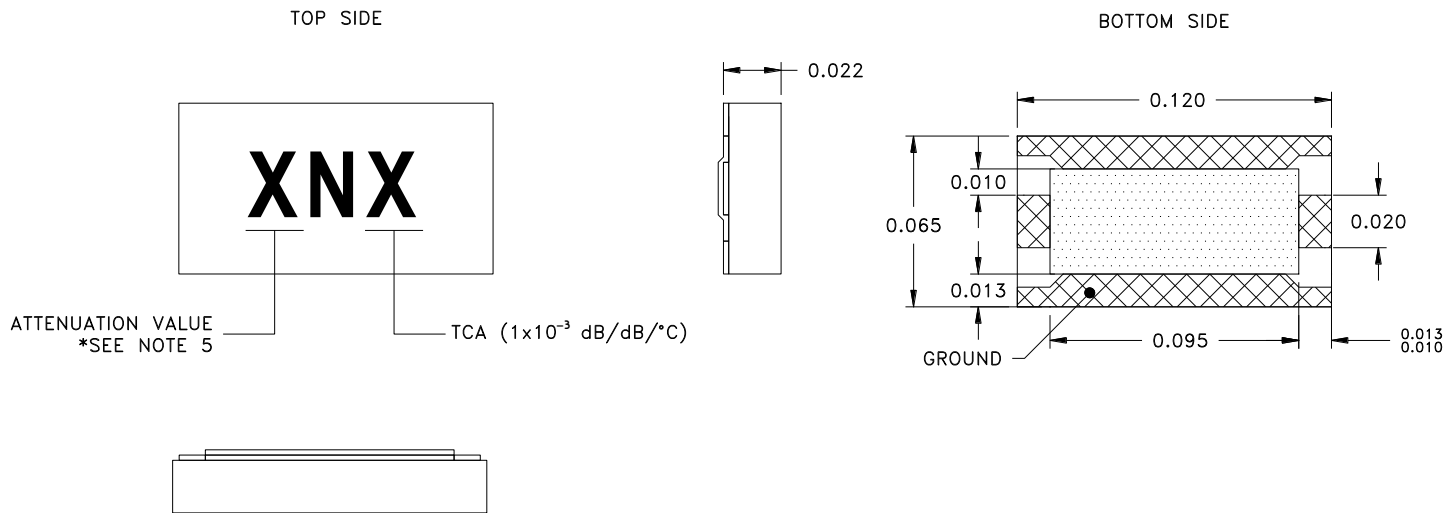
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6.0 MECHANICAL

Substrate Material:	Alumina, MIL-I-10
Terminal Material:	Thick Film, Nickel Barrier, Sn/Pb Solder Plated
Workmanship	PER MIL-PRF-55342
Resistive Element:	Thick Film
Metric Dimensions:	Provided for reference only

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

7.0 LAND PATTERN

Part Number	Inches					mm				
	A	B	C	D	W	A	B	C	D	W
KTVAXXNXXXSMTF	0.020	0.010	.095	0.039	0.013	0.51	0.254	2.41	1.01	0.32

