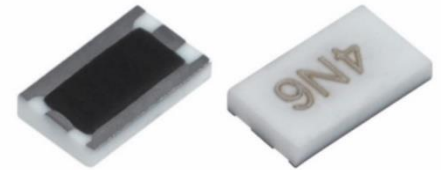
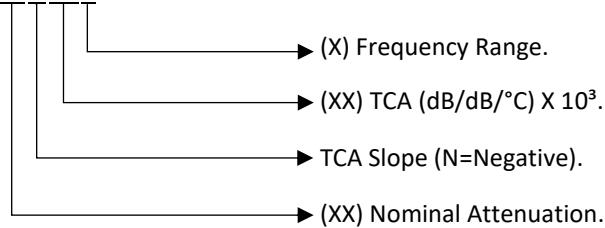


## ORDERING INFORMATION

## PART IDENTIFIER: SPL-KTVAXXNXXXSMT



## SPECIFICATIONS

## 1. ELECTRICAL:

Nominal Impedance:	50 Ω.
Frequency Range:	5=18-27 GHz, 6=27-36 GHz.
Attenuation Values Available:	2-6 dB in 1 dB 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:	-0.005, and -0.007 dB/dB/°C.
Temperature Coefficient Tolerance:	±0.001 dB/dB/°C Note: -0.007 ±0.002.

## 2. ENVIRONMENTAL:

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

## 3. MARKING:

Unit Marking:	Attenuation Value and Shift.
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## 4. 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:

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

100% Electrical, visual, and mechanical examination for conformance to outline dwg requirements.

**ATTENUATOR TEMPERATURE VARIABLE CHIP (K-BAND)**

**DATASHEET PART SERIES: SPL-KTVAXXNXXXSMT**

Sheet 2 of 3

ECO-087054

Doc# SPL-KTVAXXNXXXSMT-1017045

Revision A

Perform inspection in accordance with 824W009 and 824W199.

Test data requirements:

100% test data required for customer.

SPL sim data per 824W199.

Data retention – 7 years

**5. PACKAGING:**

Standard: Tape and Reel.

**6. MECHANICAL:**

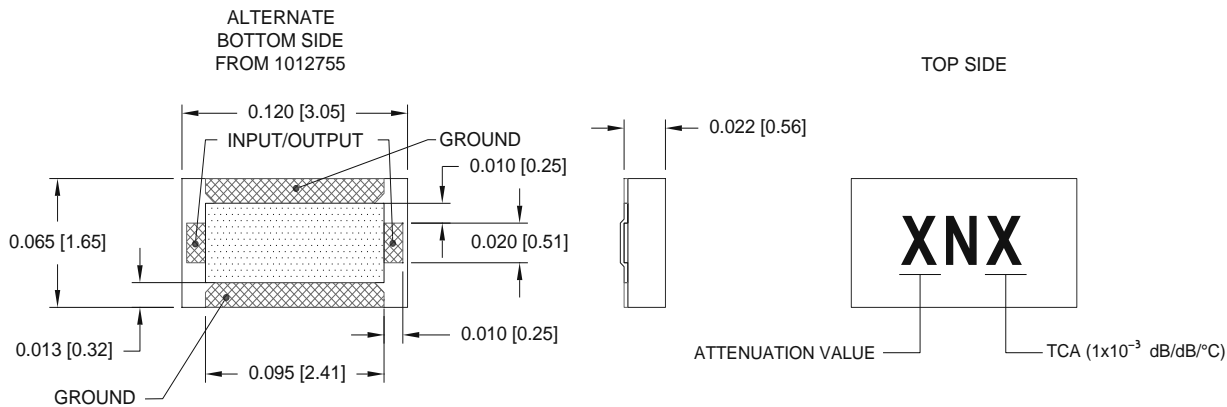
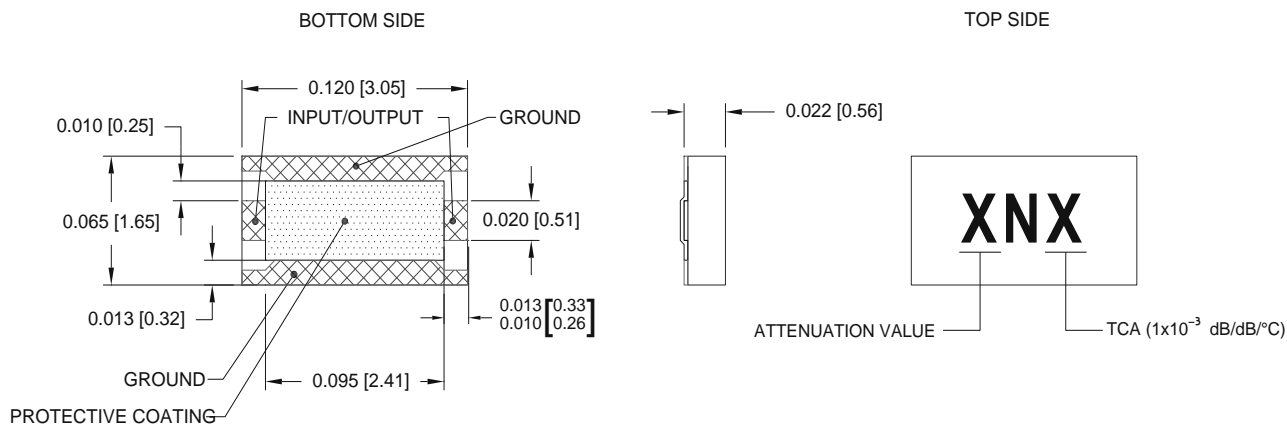
Substrate Material: Alumina, MIL-I-10.

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. LAND PATTERN:

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

