

## ATTENUATOR TEMPERATURE VARIABLE

## DATASHEET

PART SERIES: WTVAXX00N0XSMT

Sheet 1 of 3

ECO-084335

Doc# SPL-WTVAXX00N0XSMT-1016955

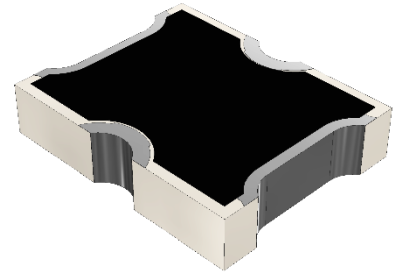
Revision A

## ORDERING INFORMATION

## PART IDENTIFIER:

SPL-WTVAXX00N0XSMT

- X = Temperature Coefficient of Attenuation 0.001 dB/dB/°C
- N = Attenuation Shift Negative
- XX = dB Value



## SPECIFICATIONS

## 1. ELECTRICAL:

Nominal Impedance: 50  $\Omega$ .

Frequency Range: DC TO 20 GHz.

Power Rating: 200 Milliwatts full rated power to 125°C, derated linearly to 0 watts at 150°C.

Attenuation Values Available:

	Temperature Coefficient of Attenuation (dB/dB/°C) "Shift"					
dB Value	-0.003	-0.004	-0.005	-0.006	-0.007	-0.009
2dB	X	X	X		X	X
3dB	X	X	X	X	X	X
4dB	X		X		X	X
5dB	X		X		X	X
6dB	X		X	X	X	X
7dB	X		X		X	
8dB	X		X		X	
10dB				X		

Attenuation Accuracy@ 25°C:  $\pm 0.5$  dB @ 15 GHz.  
 $\pm 1.0$  dB @ 20 GHz.

VSWR@ 25°C: 1.40:1 Typical DC-20 GHz.  
 1.70:1 Maximum DC-20 GHz.

Peak Power: 2 Watts for 10 $\mu$ s pulse width @ 1% duty cycle.

Temperature Coefficient Tolerance:  $\pm 0.001$  dB/dB/°C.

## 2. ENVIRONMENTAL:

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

Non-operating Temperature: -65°C to +150°C.

## 3. MARKING:

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

#### 4. QUALITY ASSURANCE:

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

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 standard

#### 5. PACKAGING:

Standard:

Tape and Reel.

#### 6. MECHANICAL:

Substrate Material:

Alumina.

Terminal Material:

Thick Film, Nickel barrier solder plated.

Workmanship

PER MIL-PRF-55342.

Ground Plane:

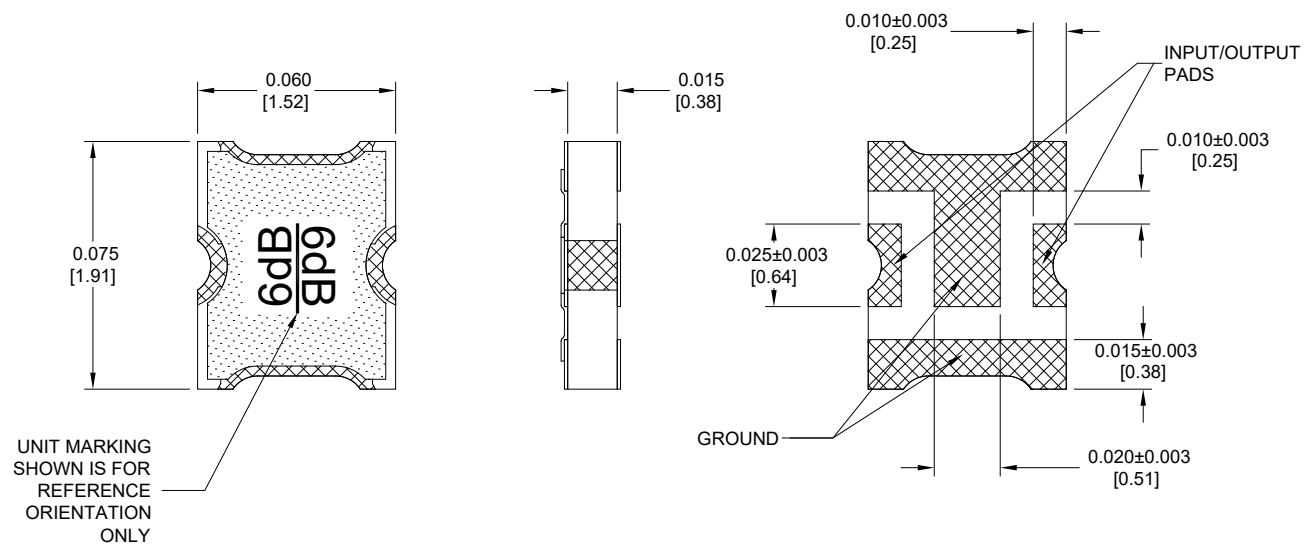
Thick Film.

Resistive Element:

Thick Film.

Metric Dimensions:

Provided for reference only.



Unless Otherwise Specified:

TOLERANCE: X.XX = ± 0.01 X.XXX = ± 0.005.

7. FOOTPRINT:

Part Number	Inches						mm					
	A	B	C	D	E	W	A	B	C	D	E	W
WTVAXX00N0XSMT	0.025	0.015	0.016	0.049	0.018	0.070	0.64	0.38	0.41	1.24	0.46	1.78

