

## ATTENUATOR CHIP

## DATASHEET

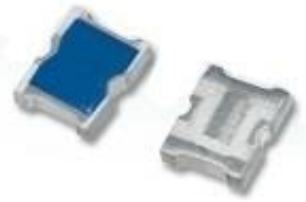
PART SERIES: TS09XXSMT

Sheet 1 of 2  
Doc# SPL-TS09XXSMT-1016965ECO-084335  
Revision A

## ORDERING INFORMATION

## PART IDENTIFIER: SPL-TS09XXSMT

XX = dB Value.



## SPECIFICATIONS

## 1. ELECTRICAL:

Nominal Impedance: 50Ω.

Frequency Range: DC – 20 GHz.

Attenuation Values Available: 1 – 10 in 1 dB increments.

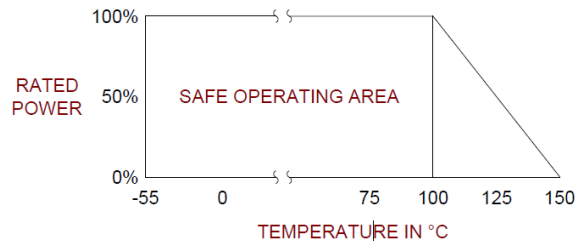
Attenuation Accuracy:

ATTENUATION ACCURACY @25°C		
dB	DC – 15 GHz	15-20 GHz
0 – 4	±0.5	±0.5
5 – 10	±0.5	±0.75

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

Input Power CW:

Input Power CW	
Attenuation ( dB )	Power ( W )
0 - 1	4.00
2 - 3	1.50
4 - 6	1.25
7 - 10	1.00
Full Rated Power at 100 C. Power is derated linearly to 0 Watts at 150 C	



## 2. ENVIRONMENTAL:

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

## 3. MARKING:

Unit Marking: Marked with dB Value. Legibility and permanency per MIL-STD-130.

## 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 Packaging:

Tape and Reel.

**6. MECHANICAL:**

Resistive Film:

Thick Film.

Terminal Material:

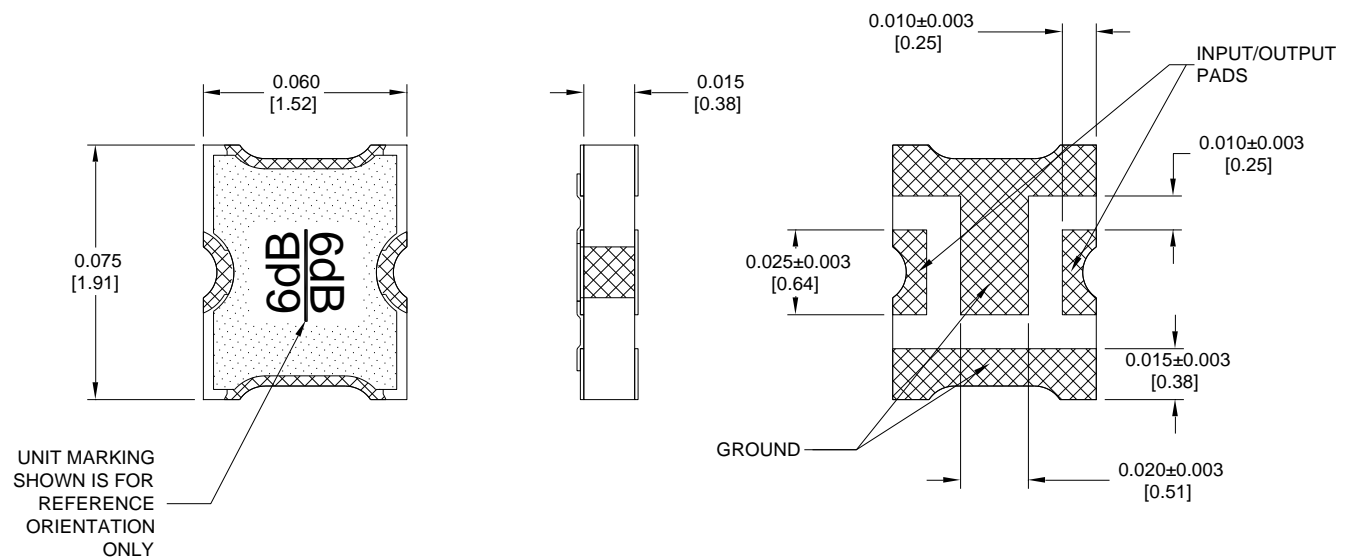
Thick Film, Nickel Barrier, Solder Plated.

Metric Dimensions:

Provided for reference only.

Workmanship

PER MIL-R-55342.



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

**7. FOOTPRINT:**

Part Number	Inches						mm					
	A	B	C	D	S	W	A	B	C	D	S	W
TS09XXSMT	0.019	0.011	0.012	0.041	0.012	0.070	0.48	0.28	0.30	1.04	0.30	1.78

