

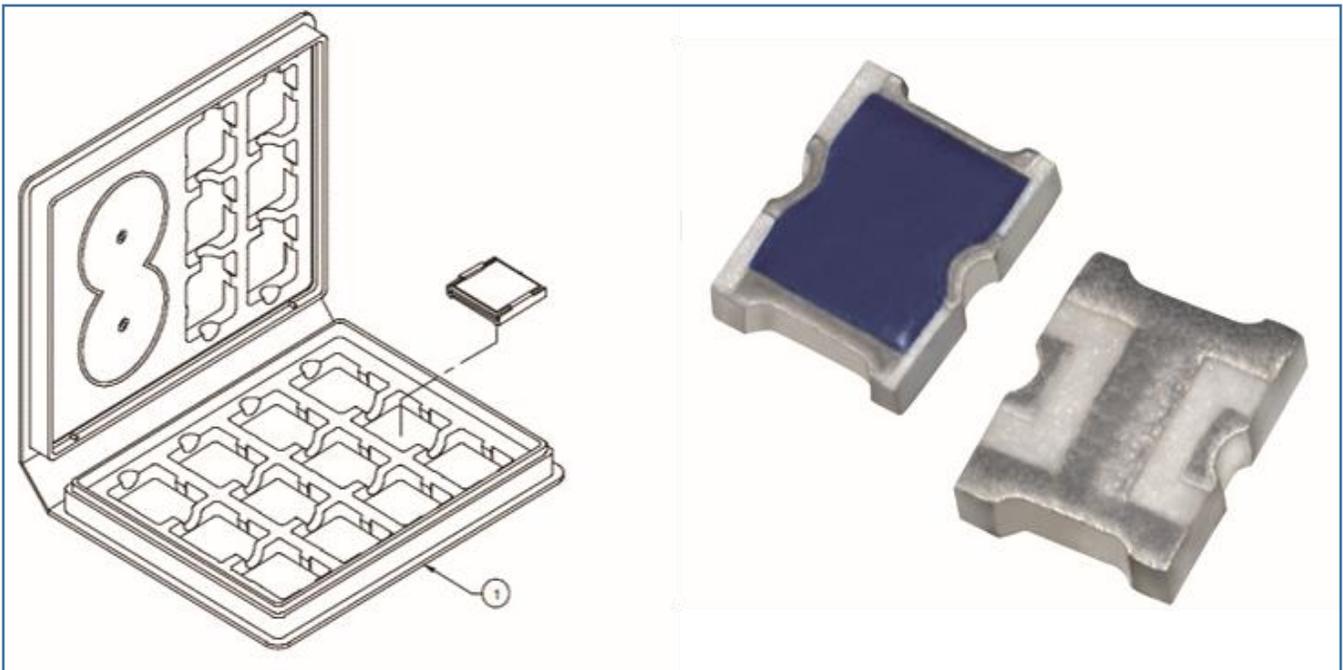
# Design kit information

## TT9 SMT Series

## Attenuator Chip 500 Milliwatts

D. Raymond, 17/10/2018

Stuart



## ORDERING INFORMATION

**Part Identifier:** TT9XX.0SMT-DKIT

Kit contains 10 pieces of the following part numbers and evaluation board

TT900.0SMT	TT901.0SMT	TT902.0SMT	TT903.0SMT	TT904.0SMT	TT905.0SMT
TT906.0SMT	TT907.0SMT	TT908.0SMT	TT909.0SMT	TT910.0SMT	

## SPECIFICATIONS

### 1.0 ELECTRICAL

Nominal Impedance: 50 ohms  
 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

Input Power CW: 500 Milliwatts full rated power to 125°C, derated linearly to 0 watts at 150°C.  
 VSWR @ 25°C: DC – 20 GHz - 1.40:1 Typical  
 DC – 20 GHz - 1.70:1 Max

### 2.0 ENVIRONMENTAL

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

### 3.0 MARKING

Unit Marking: None

### 4.0 QUALITY ASSURANCE

**Sample Inspect Per MIL-STD-105, Level II, 1.0% AQL.**

Visual and Mechanical Inspection for Conformance to Outline Drawing

Measure Attenuation and VSWR

Data Retention - Standard

### 5.0 PACKAGING

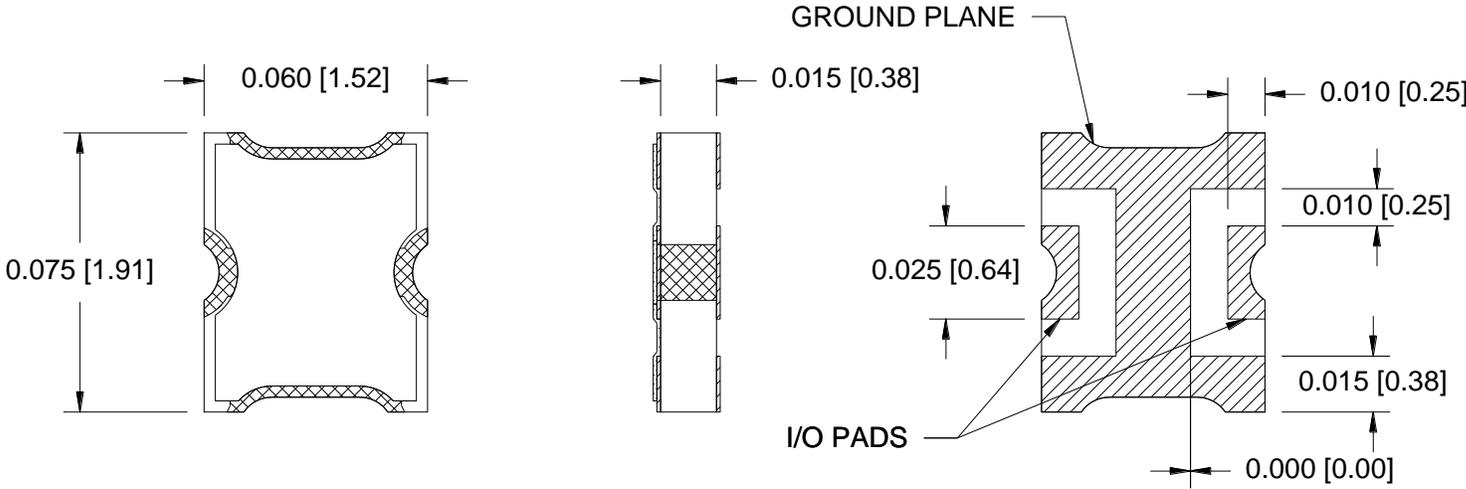
Standard Packaging: Waffle Pack

### 6.0 MECHANICAL

Substrate Material: Alumina  
 Resistive Film: Thick Film

Terminal Material:  
Metric Dimensions:  
Workmanship:

Thick Film, Nickel Barrier, Solder Plated  
Provided for reference only  
PER MIL-PRF-55342



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

**7.0 SUGGESTED MOUNTING FOOTPRINT**

Part Number	Inches						mm					
	A	B	C	D	S	W	A	B	C	D	S	W
TT9XX.0SMT	0.019	0.011	0.012	0.041	0.012	0.070	0.48	0.28	0.30	1.04	0.30	1.78

