



## ORDERING INFORMATION

PART IDENTIFIER: TS03XXW3F

→ (XX)=dB VALUE.



## SPECIFICATIONS

## 1. ELECTRICAL:

Nominal Impedance: 50  $\Omega$ .  
 Frequency Range: DC – 8 GHz.  
 Attenuation Values Available: 0 - 20 dB in 1 dB increments.  
 Attenuation Accuracy: See Table.

ATTENUATION ACCURACY		
dB	DC – 4 GHz	4 – 8 GHz
0	+0.3, -0.0	+0.5, -0.0
1 – 3	$\pm 0.3$	$\pm 0.5$
4 – 6	$\pm 0.4$	$\pm 0.5$
7 – 10	$\pm 0.5$	$\pm 0.5$
11 – 15	$\pm 0.75$	+0.5, -3.0
16 - 20	$\pm 1.0$	+0.5, -4.0

Input Power CW: 2 Watts Full Rated Power to 125°C, Derated Linearly to 0 Watts at 150°C.  
 Peak Power: 50 Watts for 10 $\mu$ s pulse width @ 1% duty cycle.  
 VSWR: DC – 4 GHz - 1.25:1.  
 4 – 8 GHz – 1.35:1.

## 2. ENVIRONMENTAL:

Operating Temperature: -55°C to +150°C.  
 Non-operating Temperature: -55°C to +150°C.  
 Temperature Coefficient:  $\pm 200$  PPM/°C Max.  
 Altitude Non-Operating: Sea Level to 50,000 Feet.  
 Altitude Operating: Sea Level to 50,000 Feet.  
 Vibration: Per MIL-STD-202, METHOD 204, COND. D.  
 Shock: Per MIL-STD-202, METHOD 213, COND. I.  
 Moisture Resistance: Per MIL-STD-202, METHOD 106 Except Sub cycle Steps 7a and 7b. Polarization and Load Are Not Applicable.

## 3. MARKING:

Unit Marking: dB Value.

## 4. QUALITY ASSURANCE:

Sample Inspect Per MIL-STD-105, Level II, 1.0% AQL.  
 Visual and Mechanical Examination for Conformance to Outline Drawing.  
 Measure Attenuation and VSWR.  
 Data Retention – Standard.

**5. PACKAGING:**

Standard Packaging:

Tape and Reel.

**6. MECHANICAL:**

Resistive Film:

Thin Film, Tantalum Nitride.

Terminal Material:

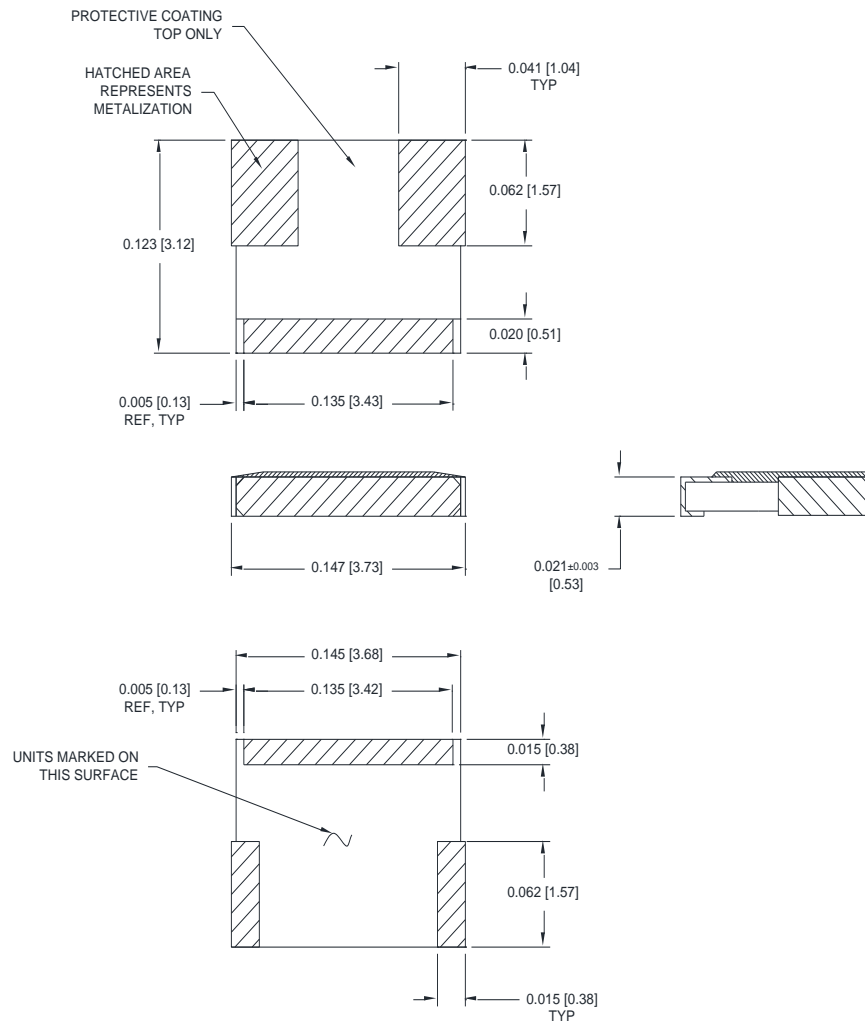
Thick film, Lead Free Plating.

Workmanship:

Per MIL-R-55342.

Metric Dimensions [mm]:

Provided for reference only.

Unless Otherwise Specified Dimensions are in Inches: Tolerance X.XXX =  $\pm 0.005$ .



7. SUGGESTED MOUNTING FOOTPRINT:

Part Number	Inches						mm					
	A	B	C	D	S	W	A	B	C	D	S	W
TS03XXW3F	0.043	0.064	0.067	0.023	0.041	0.150	1.09	1.63	1.70	0.58	1.04	3.81

