

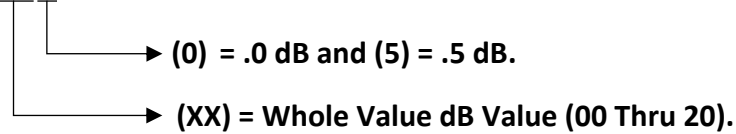
## CHIP ATTENUATOR

DATASHEET PART SERIES: TT3XXXW3

Sheet 1 of 2  
Doc# TT3XXXW3-1011455ECO-085014  
Revision A

## ORDERING INFORMATION

## PART IDENTIFIER: TT3XXXW3



Assembly Drawing: 1902044

## SPECIFICATIONS

## 1. ELECTRICAL:

Nominal Impedance: 50  $\Omega$ .

Frequency Range: DC – 8 GHz.

Attenuation Values Available: 0 - 20 dB in 0.5 dB increments.

Attenuation Accuracy: See Table.

ATTENUATION ACCURACY		
dB	DC – 4 GHz	4 – 8 GHz
0	-0, +0.3	-0, +0.5
.5 – 3	$\pm 0.3$	$\pm 0.5$
3.5 – 6	$\pm 0.4$	$\pm 0.5$
6.5 – 10	$\pm 0.5$	$\pm 0.5$
10.5 – 15	$\pm 0.75$	+0.5, -3.0
15.5 - 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.

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". Green dot adds 0.5 dB. Legibility and Permanency per MIL-STD-130.

## 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.

Perform Inspection in Accordance with 824W170 for Commercial Grade Product.

Test Data Requirements:

No Test Data Required for Customer.

Data Retention – 24 Months.

**5. PACKAGING:**

Packaging:

Standard Pack Per 755W002.

**6. MECHANICAL:**

Substrate Material:

Alumina, MIL-I -10.

Terminal Material:

Thick film, Nickel Barrier, Solder Plated.

Resistive Material:

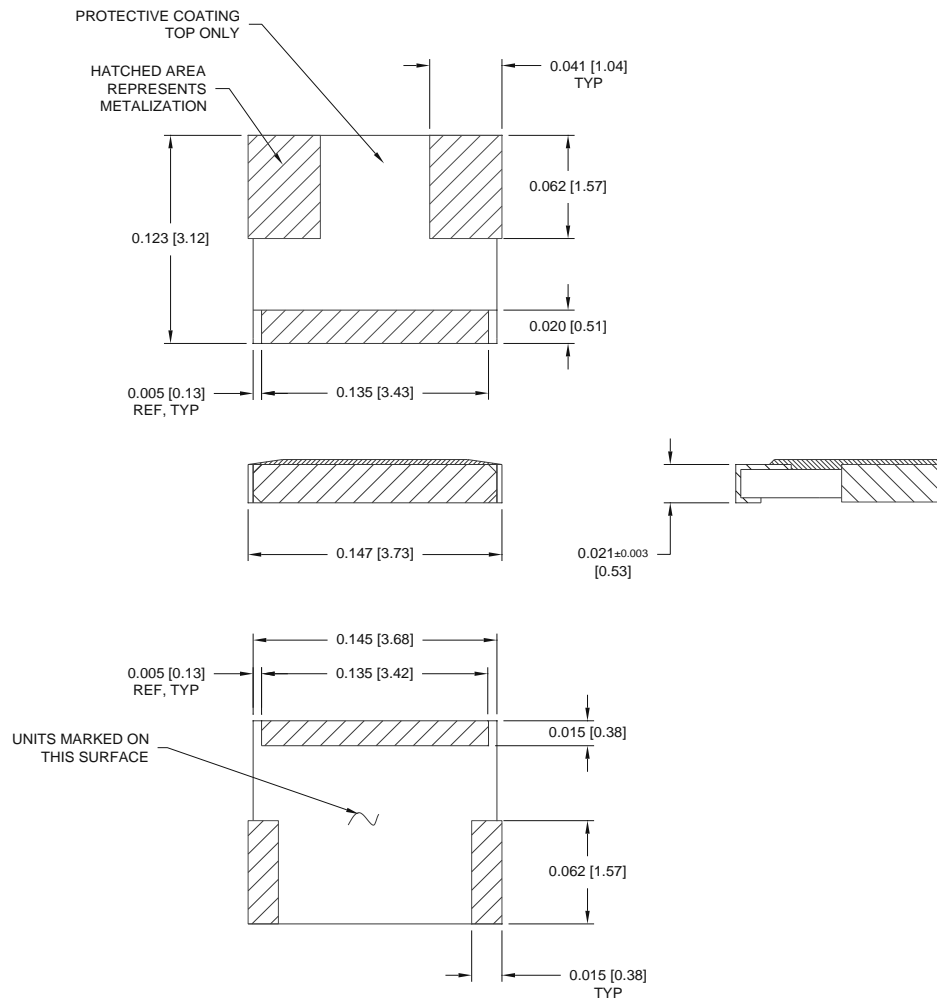
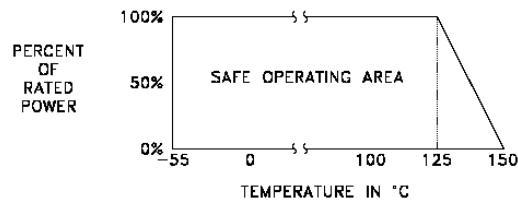
Thin Film Tantalum Nitride.

Workmanship:

Per MIL-PRF-55342.

Metric Dimensions [mm]:

Provided for reference only.

**POWER RATING AND DERATING**

Unless Otherwise Specified Dimensions are in Inches: Tolerance X.XXX = ± 0.005.