

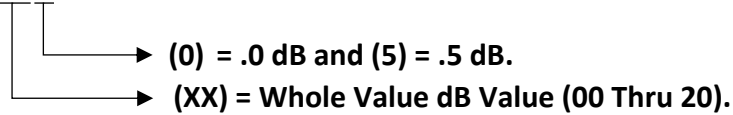
CHIP ATTENUATOR

DATASHEET PART SERIES: TT5XXXW3

Sheet 1 of 2
Doc# TT5XXXW3-1010805ECO-085014
Revision A

ORDERING INFORMATION

PART IDENTIFIER: TT5XXXW3



Assembly Drawing: 1901714.

SPECIFICATIONS

1. ELECTRICAL:

Nominal Impedance: 50 Ω .
 Frequency Range: DC – 12.4 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	8 – 12.4 GHz
0	-0, +0.3	-0, +0.5	-0, +0.5
0.5 – 3.5	± 0.3	± 0.5	± 0.5
4 – 6.5	± 0.4	± 0.5	± 0.5
7 – 10.5	± 0.5	± 0.5	± 0.75
11 – 15.5	± 0.75	+0.5,-3.0	+0.5,-3.5
16 – 20	± 1.0	+0.5,-4.0	+1.0,-6.0

Input Power CW: 100 Milliwatts Full Rated Power to 125°C, Derated Linearly to 0 Watts at 150°C.
 Peak Power: 1 Watt for 10 μ s pulse width @ 1% duty cycle.
 VSWR: DC – 4 GHz - 1.25 Max.
 4 – 8 GHz - 1.35 Max.
 8 – 12.4 GHz - 1.50 Max.

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". 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 and 824F036 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 96%, MIL- I -10.

Terminal Material:

Thick film, Nickel Barrier, Solder Plated.

Resistive Material:

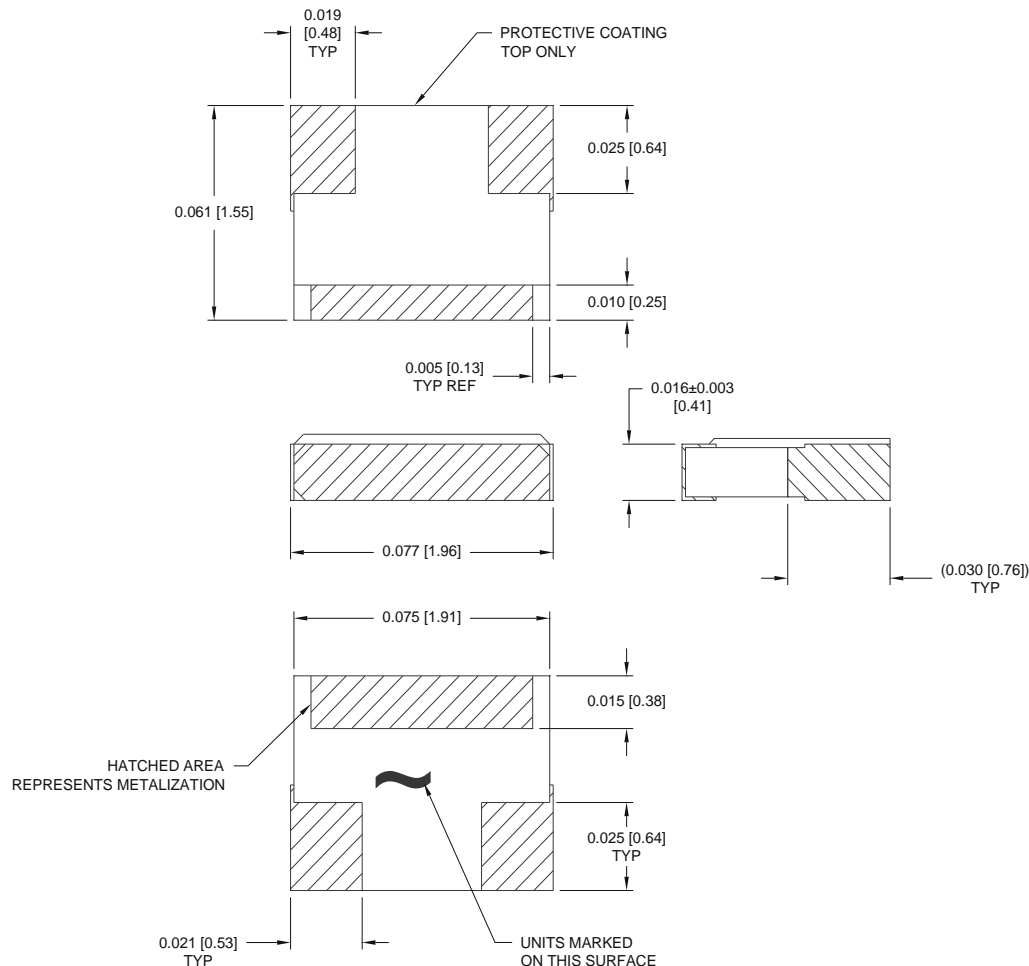
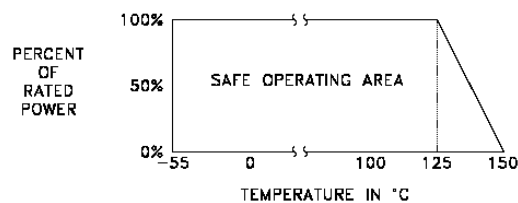
Thin Film, Tantalum Nitride.

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.