

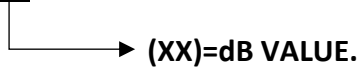
ATTENUATOR CHIP 2 WATT

DATASHEET PART SERIES: TS03XXW3

Sheet 1 of 3
Doc# TS03XXW3-1004125ECO-084063
Revision N

ORDERING INFORMATION

PART IDENTIFIER: TS03XXW3



(XX)=dB VALUE.



SPECIFICATIONS

1. ELECTRICAL:

Nominal Impedance: 50 Ω .
 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	± 0.3	± 0.5
4 – 6	± 0.4	± 0.5
7 – 10	± 0.5	± 0.5
11 – 15	± 0.75	+0.5, -3.0
16 - 20	± 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 μ 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: ± 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:

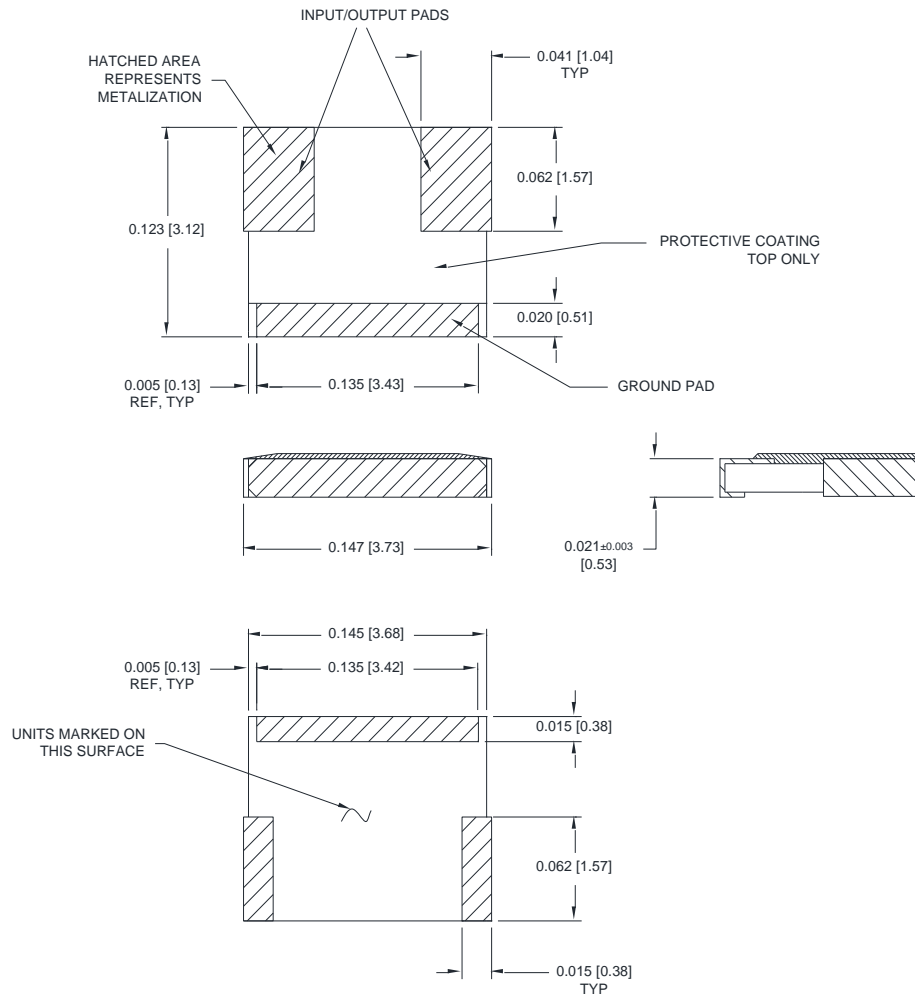
Thick film, Nickel Barrier, Solder Plated.

Workmanship:

Per MIL-R-55342.

Metric Dimensions [mm]:

Provided for reference only.

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

7. SUGGESTED MOUNTING FOOTPRINT:

Part Number	Inches						mm					
	A	B	C	D	S	W	A	B	C	D	S	W
TS03XXW3	0.043	0.064	0.067	0.023	0.041	0.150	1.09	1.63	1.70	0.58	1.04	3.81

