

ATTENUATOR CHIP 2 WATT

DATASHEET PART SERIES: TS03XXWB1

Sheet 1 of 2
Doc# TS03XXWB1-1004115ECO-084063
Revision K

ORDERING INFORMATION

PART IDENTIFIER: TS03XXWB1

→ (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: 1.30:1 Max.

2. ENVIRONMENTAL:

Operating Temperature: -55°C to +150°C.
 Non-operating Temperature: -65°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.

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Standard Packaging:

Tape and Reel.

6. MECHANICAL:

Resistive Film:

Thin Film, Tantalum Nitride.

Terminal Material:

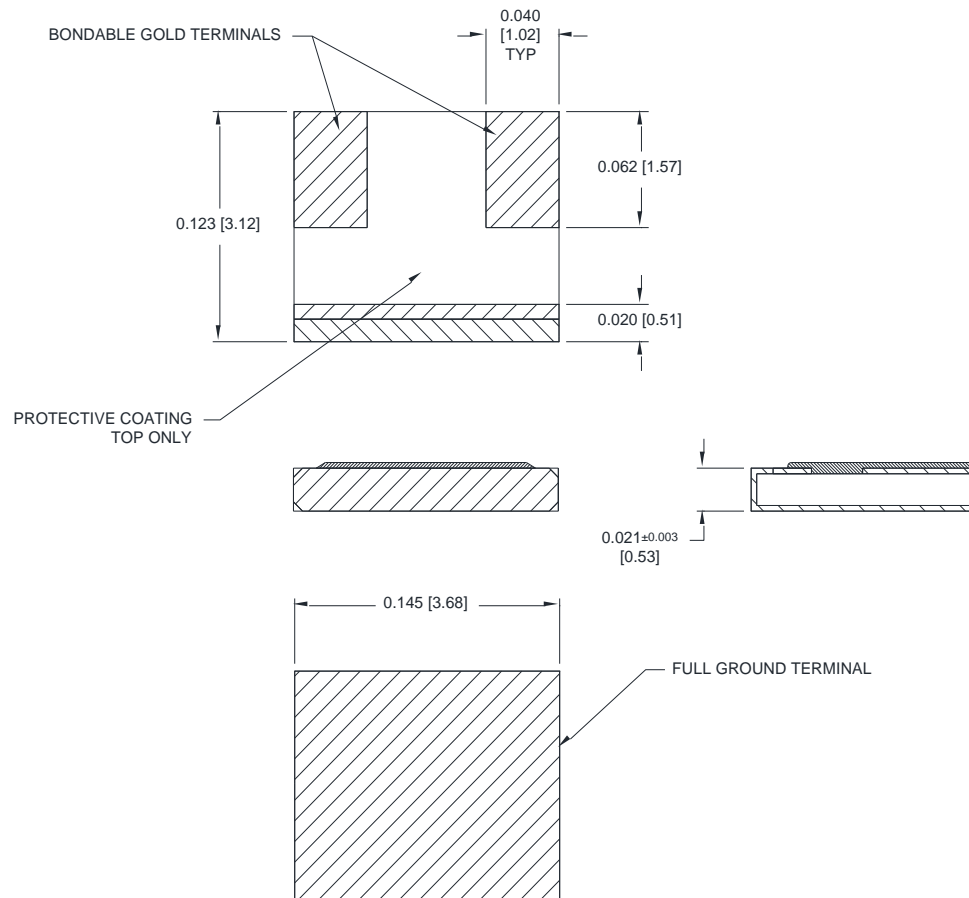
Thick film, Bondable Gold.

Workmanship:

Per MIL-R-55342.

Metric Dimensions [mm]:

Provided for reference only.



Unless Otherwise Specified Dimensions are in Inches: Tolerance X.XX = ± 0.XX X.XXX = ± 0.XXX.