

ATTENUATOR CHIP 2 WATT

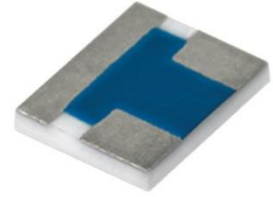
DATASHEET PART SERIES: TS03XXS

Sheet 1 of 3
Doc# TS03XXS-1000445ECO-084063
Revision L

ORDERING INFORMATION

PART IDENTIFIER: TS03XXS

→ (XX)=dB VALUE



SPECIFICATIONS

1. ELECTRICAL:

Nominal Impedance: 50 Ω .
 Frequency Range: DC – 12.4 GHz.
 Attenuation Values Available: 0 - 20 dB in 1 dB increments.
 Attenuation Accuracy: See Table.

ATTENUATION ACCURACY			
dB	DC – 4 GHz	4 – 8 GHz	8 – 12.4 GHz
0	+0.3, -0.0	+0.5, -0.0	+0.5, -0.0
1 – 3	± 0.3	± 0.5	± 0.5
4 – 6	± 0.4	± 0.5	± 0.5
7 – 10	± 0.5	± 0.5	± 0.75
11 – 15	± 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: 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.
 8 – 12.4 GHz – 1.50:1.

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.

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6. MECHANICAL:

Resistive Film:

Thin Film, Tantalum Nitride.

Terminal Material:

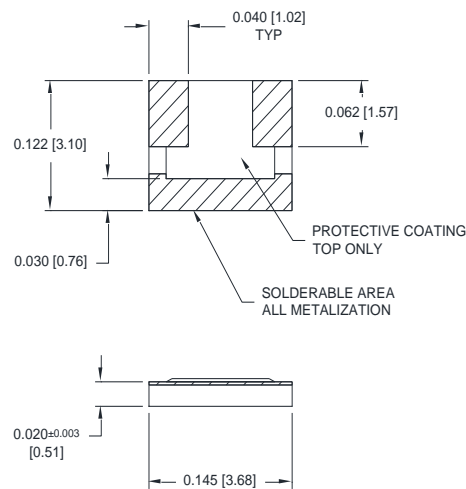
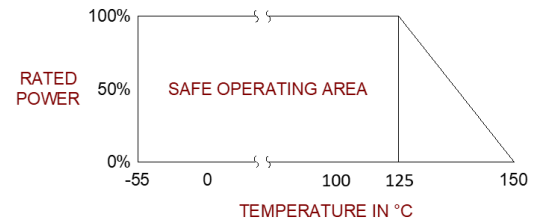
Thick film, Nickel Barrier, Solder Fused.

Workmanship:

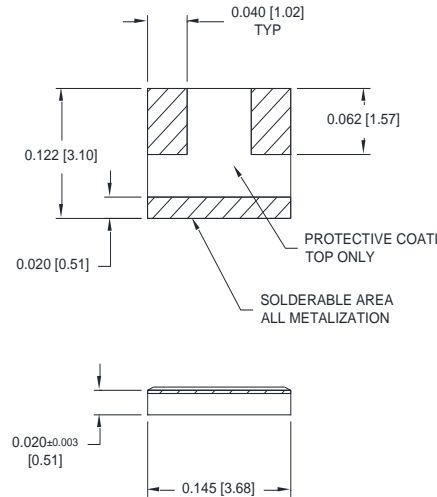
Per MIL-R-55342.

Metric Dimensions [mm]:

Provided for reference only.

UNITS MARKED ON
THIS SURFACE

0-10dB



11-20dB

*Dimensions Apply Before Solder. Allow 0.0015 Max for All Pretinned Surfaces. 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
TS03XXS	0.043	0.065	0.065	0.025	0.040	0.150	1.09	1.65	1.65	0.64	1.02	3.81

