

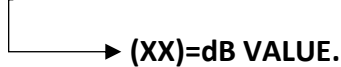
CHIP ATTENUATOR

DATASHEET PART SERIES: TT5XX0G

Sheet 1 of 2
Doc# TT5XX0G-1012195ECO-085014
Revision -

ORDERING INFORMATION

PART IDENTIFIER: TT5XX0G


 (XX)=dB VALUE.

Assembly Drawing: 1902234

SPECIFICATIONS

1. ELECTRICAL:

Nominal Impedance: 50 Ω .
 Frequency Range: DC – 18 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	12.4 – 18 GHz
0	-0, +0.3	-0, +0.5	-0, +0.5	-0, +0.5
1 – 3	± 0.3	± 0.5	± 0.5	± 0.5
4 – 6	± 0.4	± 0.5	± 0.5	± 0.75
7 – 10	± 0.5	± 0.5	± 0.75	± 1.0
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: 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 – 18 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: Marked Only with Color Dot. 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 QA0006 and FORM0357 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, Bondable Gold.

Resistive Material:

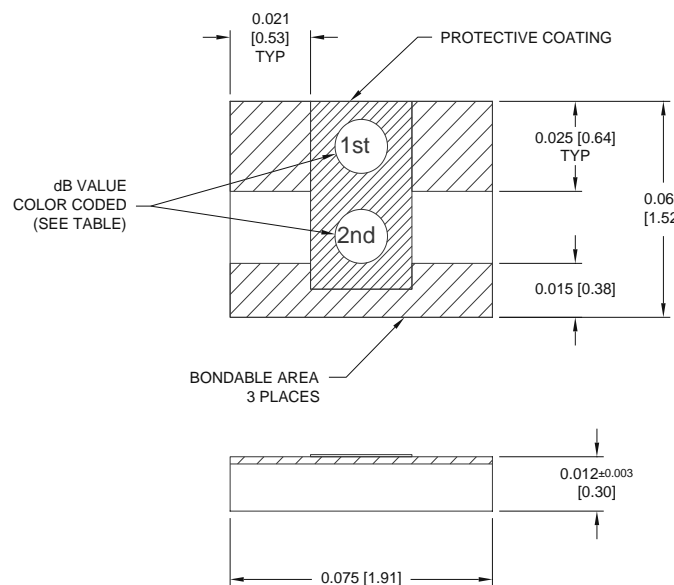
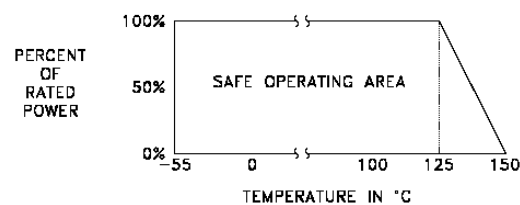
Thin Film Tantalum Nitride.

Workmanship:

Per MIL-PRF-55342.

Metric Dimensions [mm]:

Provided for reference only.

POWER RATING AND DERATING

REFERENCE TABLE					
dB VAL	DOT COLOR		dB VAL	DOT COLOR	
	1st	2nd		1st	2nd
0	BLK	---	11	BRN	BRN
1	BRN	---	12	BRN	RED
2	RED	---	13	BRN	ORG
3	ORG	---	14	BRN	YEL
4	YEL	---	15	BRN	GRN
5	GRN	---	16	BRN	BLU
6	BLU	---	17	BRN	VIO
7	VIO	---	18	BRN	GRY
8	GRY	---	19	BRN	WHT
9	WHT	---	20	RED	BLK
10	BRN	BLK			

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