ATTENUATOR CHIP 1 WATT



DATA SHEET PART SERIES: TS05XXWB1

SHEET 1 OF 2 Dwg 1004135 EN 16-0685 Revision K

FEATURES

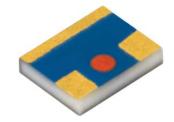
APPLICATIONS

Small Footprint Mobile Networks
High Power Broadcast

Surface Mount High Power Amplifiers
Low VSWR Isolators/Circulators

Easy Installation Military

Wide Attenuation Offering Instrumentation



GENERAL DESCRIPTION

EMC Technology offers the widest selection of chip attenuators worldwide. Chip components are offered in Alumina, Aluminum Nitride, Beryllium Oxide, and CVD diamond for maximum performance.

ORDERING INFORMATION

Part Identifier: TS05XXWB1

(XX) - dB Value

SPECIFICATIONS

1.0 ELECTRICAL

Nominal Impedance: 50 ohms

Frequency Range: DC – 12.4 GHz

Attenuation Values Available: 0 – 20 in 1 dB increments

Attenuation Accuracy:

ATTENUATION ACCURACY			
dB	DC – 4 GHz	4 – 8 GHZ	8 – 12.4 GHz
0	-0,+ .3	-0,+.5	-0,+.5
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: 100 Milliwatts CW full rated power to 125°c, derated linearly to 0 watts at 150°c.

Peak Power: 1 watt for 10us 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

2.0 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 subcycle steps 7a and 7b and polarization and load

are not applicable.

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3.0 MARKING

Unit Marking: Marked only with color dot.

4.0 QUALITY ASSURANCE

Sample inspect per ansi/asqc z1.4 general inspection, level II, aql = 1.0.

Visual and mechanical examination for conformance to outline dwg 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 packaging

Standard Packaging: Tape and Reel

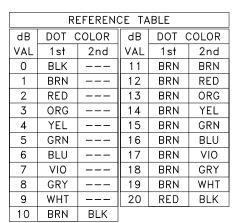
5.0 MECHANICAL

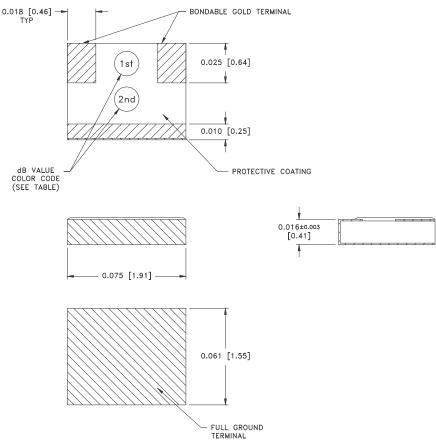
Resistive Film: Thin Film, Tantalum Nitride Terminal Material: Thick Film, Bondable Gold.

Ground Plane Material: Thick Film

Metric Dimensions: Provided for reference only

Workmanship PER MIL-PRF-55342





Unless Otherwise Specified: TOLERANCE: X.XXX = ± 0.005