ATTENUATOR CHIP 1 WATT



DATA SHEET PART SERIES: TS05XXS

SHEET 1 OF 3 Dwg 1000485 EN 16-0685 Revision M

FEATURES

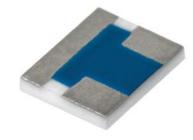
APPLICATIONS

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: TS05XXS

(XX) - dB Value

SPECIFICATIONS

1.0 ELECTRICAL

Nominal Impedance: 50 ohms Frequency Range: DC – 18 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	12.4 – 18 GHz						
0	-0,+ .3	-0,+.5	-0,+.5	-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 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 – 18 GHz - 1.50 Max

2.0 ENVIRONMENTAL

Operating Temperature: -55°C to +150°C

Non-operating Temperature: -65°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 subcycle steps 7a and 7b and polarization and load

are not applicable.

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Dwg 1000485

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3.0 MARKING

Marked with dB value. Legibility and permanency PER MIL-STD-130 Unit Marking:

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

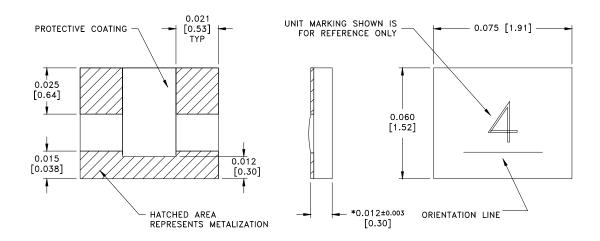
5.0 MECHANICAL

Resistive Film: Thin Film, Tantalum Nitride

Terminal Material: Thick Film, Nickel Barrier, Solder Coated

Metric Dimensions: Provided for reference only

Workmanship PER MIL-PRF-55342



* DIMENSIONS APPLY BEFORE SOLDER. ALLOW 0.015 MAX FOR ALL PRETINNED SURFACES.

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

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DATA SHEET F

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6.0 SUGGESTED MOUNTING FOOTPRINT

		Inches					mm					
Part Number	Α	В	С	D	S	W	Α	В	С	D	S	W
TS05XXS	0.025	0.027	0.030	0.015	0.019	0.080	0.64	0.69	0.76	0.38	0.48	2.03

