ATTENUATOR CHIP 1 WATT



DATA SHEET PART SERIES: TS05XX

SHEET 1 OF 3 Dwg 1000465 EN 16-0685 Revision M

FEATURES

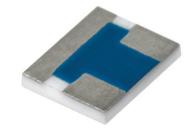
APPLICATIONS

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: TS05XX

(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	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 $+150^{\circ}$ C Non-operating Temperature: -65° C to $+150^{\circ}$ 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.

ATTENUATOR CHIP 1 WATT



SHEET 2 OF 3 **DATA SHEET PART SERIES: TS05XX** Dwg 1000465 EN 16-0685

3.0 MARKING

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

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

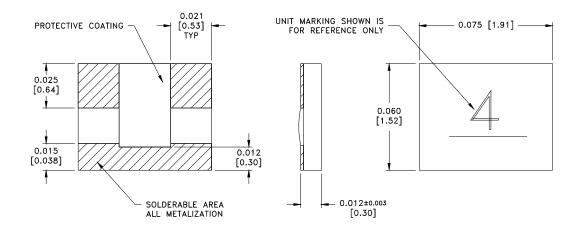
5.0 MECHANICAL

Resistive Film: Thin Film, Tantalum Nitride

Terminal Material: Thick Film, Nickel Barrier, Solder Plated

Metric Dimensions: Provided for reference only

PER MIL-PRF-55342 Workmanship



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

ATTENUATOR CHIP 1 WATT



DATA SHEET PART SERIES: TS05XX

SHEET 3 OF 3 Dwg 1000465

EN 16-0685 Revision M

6.0 SUGGESTED MOUNTING FOOTPRINT

	Inches					mm						
Part Number	Α	В	С	D	S	W	Α	В	С	D	S	W
TS05XX	0.025	0.027	0.030	0.015	0.019	0.080	0.64	0.69	0.76	0.38	0.48	2.03

