ATTENUATOR CHIP 1 WATT



EN 16-0685

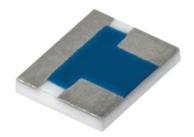
DATA SHEET PART SERIES: TS05XXS

FEATURES

Small Footprint **High Power** Surface Mount Low VSWR Easy Installation Wide Attenuation Offering

APPLICATIONS

Mobile Networks Broadcast **High Power Amplifiers** Isolators/Circulators Military Instrumentation



SHEET 1 OF 3

Dwg 1000485

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:	

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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: Peak Power: VSWR:

100 Milliwatts CW full rated power to 125°c, derated linearly to 0 watts at 150°c.

1 watt for 10us pulse width @ 1% duty cycle.

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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3.0 MARKING

Unit Marking:

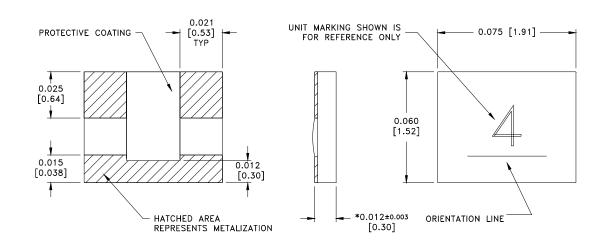
Marked with dB value. Legibility and permanency PER MIL-STD-130

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 Coated
Metric Dimensions:	Provided for reference only
Workmanship	PER MIL-PRF-55342



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

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



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DATA SHEET	PART SERIES: TS05XXS	SHEET 3 OF 3 Dwg 1000485	EN 16-0685 Revision M

6.0 SUGGESTED MOUNTING FOOTPRINT

	Inches						m	m				
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

