# ATTENUATOR CHIP 1 WATT



EN 16-0685

### DATA SHEET PART SERIES: TS05XX

#### FEATURES Small Footprint

**High Power** 

Surface Mount Low VSWR

Easy Installation

# APPLICATIONS

Mobile Networks Broadcast High Power Amplifiers Isolators/Circulators Military Instrumentation

Dwg 1000465

#### **GENERAL DESCRIPTION**

Wide Attenuation Offering

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:

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

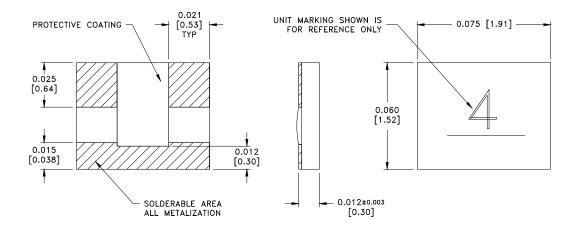
Operating Temperature:	-55°C to +150°C
Non-operating Temperature:	-65°C to +150°C
Altitude Non-Operating	Sea level to 50,000 feet.
Altitude Operating:	Sea level to 50,000 feet.
Vibration:	Per MIL-STD-202, METHOD 204, COND. D.
Shock:	Per MIL-STD-202, METHOD 213, COND. I.
Moisture resistance:	Per MIL-STD-202, METHOD 106 except subcycle steps 7a and 7b and polarization and load are not applicable.

# **ATTENUATOR CHIP 1 WATT**

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3.0MARKING				
Unit Marking:		Marked with dB value. Legibility and permanency	PER MIL-STD-130	
4.0QUALITY	ASSURANCE			
Sample inspect	per ansi/asqc z1.4 gen	eral inspection, level II, aql = 1.0.		
Visual and mech	nanical examination for	conformance to outline dwg requirements.		
Perform inspecti	ion in accordance with	824w170 and 824f036 for commercial grade produ	ct.	
Test	data requirements:			
No te	st data required for cus	tomer.		
Data	retention – 24 months p	backaging		
Standard Packa	aging:	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
Workmanship	PER MIL-PRF-55342



Unless Otherwise Specified: TOLERANCE:  $X.XXX = \pm 0.005$ 

Form 423F110



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# 6.0 SUGGESTED MOUNTING FOOTPRINT

	Inches			mm								
Part Number	Α	В	С	D	S	W	А	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

