ATTENUATOR CHIP 2 WATT



DATA SHEET PART SERIES: TS03XX

SHEET 1 OF 3 Dwg 1000435 EN 16-0604 Revision M

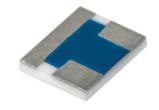
FEATURES APPLICATIONS

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: TS03XX

(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, -0.0	+0.5, -0.0	+0.5, -0.0						
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	+0.54.0	+10-60						

Input Power CW: 2 Watts full rated power to 125°c, derated linearly to 0 watts at 150°c.

Peak Power: 50 watts for 10us pulse width @ 1% duty cycle.

VSWR: DC – 4 GHz - 1.25:1

4 – 8 GHz - 1.35:1 8 – 12.4 GHz - 1.50:1

2.0 ENVIRONMENTAL

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

Non-operating Temperature: -55°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 Sub cycle Steps 7a and

7b. Polarization and Load Are Not Applicable.

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3.0 MARKING

Unit Marking: "dB Value"

4.0 QUALITY ASSURANCE

Sample Inspect Per MIL-STD-105, Level II, 1.0% AQL_

Visual and Mechanical Inspection for Conformance to Outline Drawing

Measure Attenuation and VSWR

Data Retention - Standard

5.0 PACKAGING

Standard Packaging: Tape and Reel

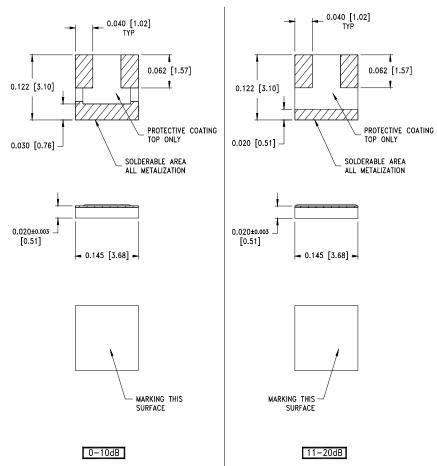
6.0 MECHANICAL

Resistive Film: Thin Film, Tantalum Nitride

Terminal Material: Thick Film, Nickel Barrier, Solder Coated

Metric Dimensions: Provided for reference only

Workmanship PER MIL-R-55342



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

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DATA SHEET PA

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7.0 SUGGESTED MOUNTING FOOTPRINT

		Inches				mm						
Part Number	Α	В	С	D	S	W	Α	В	С	D	S	W
TS03XX	0.043	0.065	0.065	0.025	0.040	0.150	1.09	1.65	1.65	0.64	1.02	3.81

