ATTENUATOR CHIP 2 WATT

DATA SHEET

FEATURES





EN 16-0604

Revision B

PART SERIES: TS03XXW3F SHEET 1 OF 3
Dwg 1010835

APPLICATIONS

Small Footprint Mobile Networks
High Power Broadcast

Surface Mount High Power Amplifiers
Low VSWR Isolators/Circulators

Easy Installation Military

Wide Attenuation Offering Instrumentation



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: TS03XXW3F

(XX) - dB Value

SPECIFICATIONS

1.0 ELECTRICAL

Nominal Impedance: 50 ohms
Frequency Range: DC – 8 GHz

Attenuation Values Available: 0 – 20 in 1 dB increments

Attenuation Accuracy:

ATTENUATION ACCURACY								
dB	DC – 4 GHz	4 – 8 GHZ						
0	+0.3, -0.0	+0.5, -0.0						
1 – 3	±0.3	±0.5						
4 – 6	±0.4	±0.5						
7 – 10	±0.5	±0.5						
11 – 15	±0.75	+0.5,-3.0						
16 - 20	±1.0	+0.5,-4.0						

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

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.

3//

ATTENUATOR CHIP 2 WATT





PART SERIES: TS03XXW3F SHEET 2 OF 3
Dwg 1010835

EN 16-0604 Revision B

3.0 MARKING

DATA SHEET

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

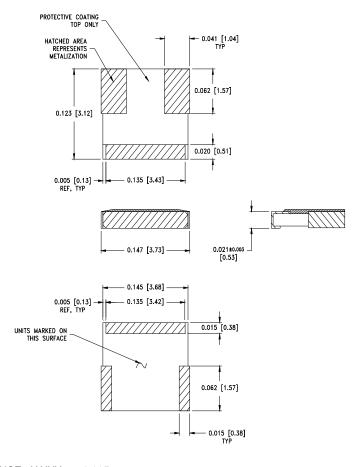
5.0 PACKAGING

Standard Packaging: Tape and Reel

6.0 MECHANICAL

Resistive Film: Thin Film, Tantalum Nitride
Terminal Material: Thick Film, Lead Free Plating
Metric Dimensions: Provided for reference only

Workmanship PER MIL-R-55342



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

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DATA SHEET PART SERIES: TS03XXW3F

SHEET 3 OF 3 Dwg 1010835 EN 16-0604 Revision B

7.0 SUGGESTED MOUNTING FOOTPRINT

	Inches					mm						
Part Number	Α	В	С	D	S	W	Α	В	С	D	S	W
TS03XXW3F	0.043	0.064	0.067	0.023	0.041	0.150	1.09	1.63	1.70	0.58	1.04	3.81

