ATTENUATOR CHIP 2 WATT





EN 16-0604

DATA SHEET PART SERIES: TS03XXF

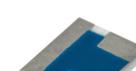
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FEATURES

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

APPLICATIONS

Mobile Networks Broadcast High Power Amplifiers Isolators/Circulators Military Instrumentation



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: TS03XXF

(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	+0.5,-4.0	+1.0,-6.0					

Input Power CW: Peak Power: VSWR: 2 Watts full rated power to 125°c, derated linearly to 0 watts at 150°c.
50 watts for 10us pulse width @ 1% duty cycle.
1.30:1 Max

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

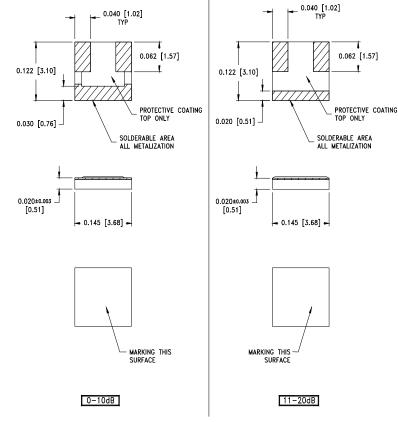
5.0 PACKAGING

Standard Packaging:

Tape and Reel

6.0 MECHANICAL

Resistive Film: Terminal Material: Metric Dimensions: Workmanship Thin Film, Tantalum Nitride Thick Film, Lead Free Plating Provided for reference only PER MIL-R-55342



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

smiths microwave

Form 423F110

Cage Codes: 24602 / 2Y194 Specifications are Subject to Change Without Notice www.emc-rflabs.com • +1 772-286-9300 AS 9100, ISO 9001 and 14001 Certified

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SHEET 3 OF 3	EN 16-0604
Dwg 1010955	Revision B

7.0 SUGGESTED MOUNTING FOOTPRINT

	Inches						mm					
Part Number	Α	В	С	D	S	W	Α	В	С	D	S	W
TS03XXF	0.043	0.065	0.065	0.025	0.040	0.150	1.09	1.65	1.65	0.64	1.02	3.81

