

ATTENUATOR

TS06XXF SMT 200 mW



DATA SHEET

PART SERIES: TS06XXF

SHEET 1 OF 3
Dwg 1014215

EN 15-0030
Revision B

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

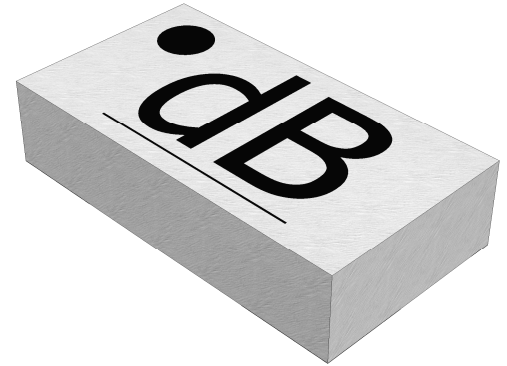
GENERAL DESCRIPTION

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:

TS06XXF
└─┬─┘ RoHS Compliant
Attenuation
Value (dB)



SPECIFICATIONS

1.0 ELECTRICAL

Nominal Impedance:	50 ohms
Frequency Range:	DC - 20 GHz
Attenuation Values Available:	0 – 20 dB (See Table)
Attenuation Accuracy:	See Table
Input Power CW:	200 mW
Peak Power:	2 W (based on 1 μ s pulse width, 1% duty cycle)
VSWR:	See Table

Attenuation Value (dB)	Attenuation Accuracy (dB)		VSWR (x:1 Max)	
	DC – 10 GHz	10 – 20 GHz	DC – 10 GHz	10 – 20 GHz
0	CONTINUITY ONLY			
1 - 6	± 0.50	± 0.50	1.30:1	1.50:1
7 - 10	± 0.50	± 0.50	1.30:1	1.50:1
10 - 20	± 0.75	± 1.00	1.30:1	1.50:1

2.0 ENVIRONMENTAL

Operating Temperature:	-55°C to +150°C
Non-operating Temperature:	-65°C to +150°C
Temperature Coefficient:	+/-200 PPM / °C max

3.0 MARKING

Unit Marking:	dB Value and Alignment Dot
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4.0 QUALITY ASSURANCE

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

Visual and Mechanical Examination for Conformance to Outline Drawing

Measure DC Resistance and RF

Data Retention – Standard

5.0 PACKAGING

Standard Packaging:

Tape and Reel

6.0 MECHANICAL

Substrate Material:

Alumina

Resistive Film:

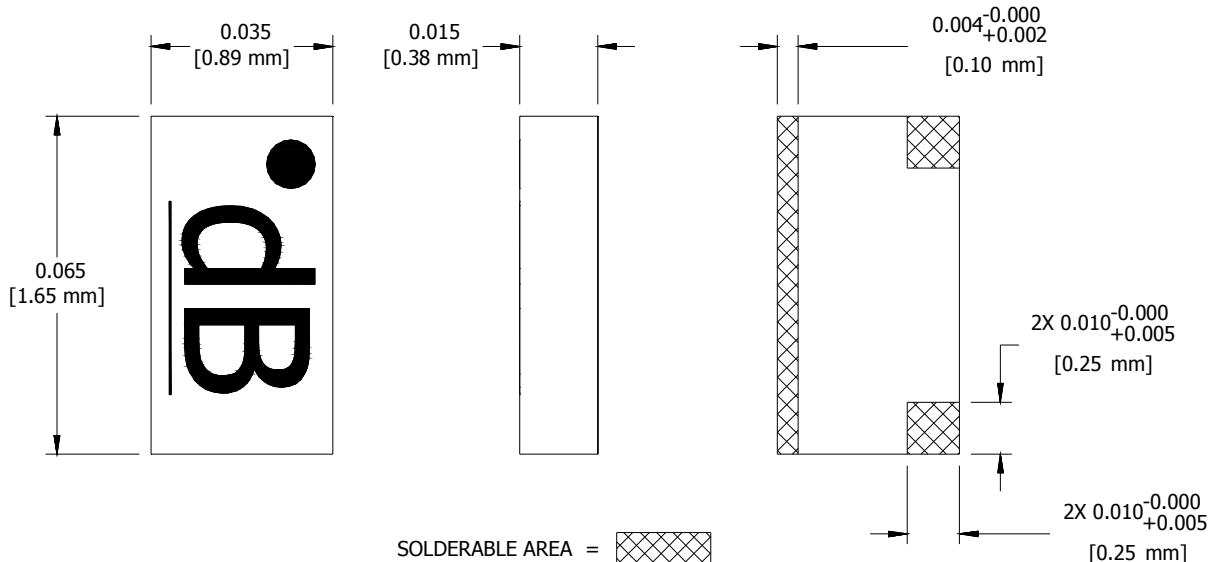
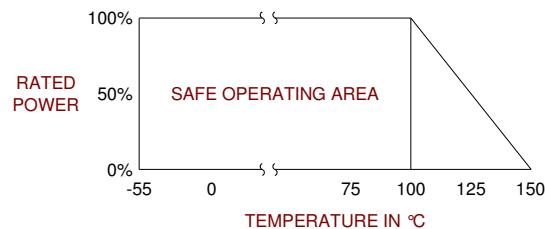
Tantalum nitride

Terminal Material:

Titanium Tungsten; Silicon Nitride

Metric Dimensions:

Provided for reference only



Unless Otherwise Specified: TOLERANCE: X.XX = ± 0.01 X.XXX = ± 0.005

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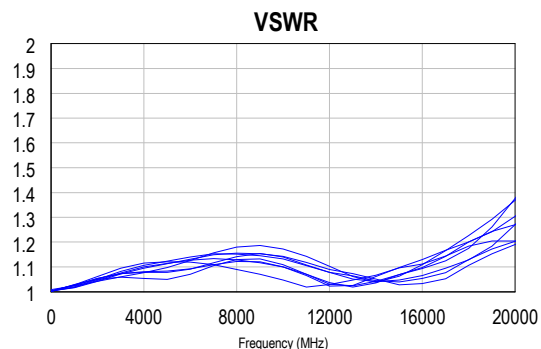
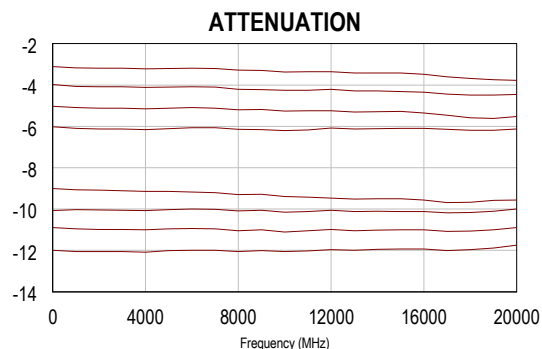
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7.0 TYPICAL PERFORMANCE AT 25°C



8.0 RECOMMENDED PCB LAYOUT

SUGGESTED MOUNTING

