

ATTENUATOR

TS06XXF SMT 200 mW



DATA SHEET

PART SERIES: TS06XXF

SHEET 1 OF 3
Dwg 1014215

EN 16-1189
Revision C

FEATURES

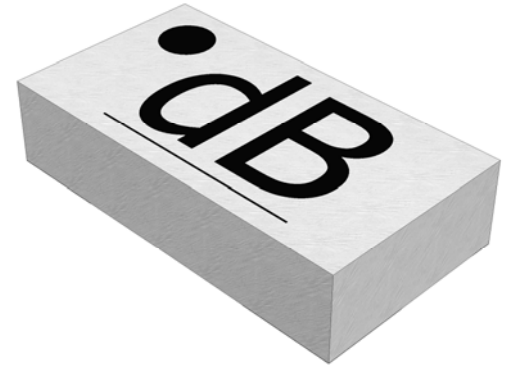
- Small Footprint
- High Power
- Surface Mount
- Low VSWR
- Easy Installation
- Wide Attenuation Offering

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 Typical*) | |
|------------------------|---------------------------|-------------|---------------------|-------------|
| | DC – 10 GHz | 10 – 20 GHz | DC – 10 GHz | 10 – 20 GHz |
| 0 | CONTINUITY ONLY | | | |
| 1 - 9 | ± 0.50 | ± 0.50 | 1.25:1 | 1.35:1 |
| 10 - 20 | ± 0.75 | ± 1.00 | 1.25:1 | 1.35:1 |

*For Actual Measurements See Website

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

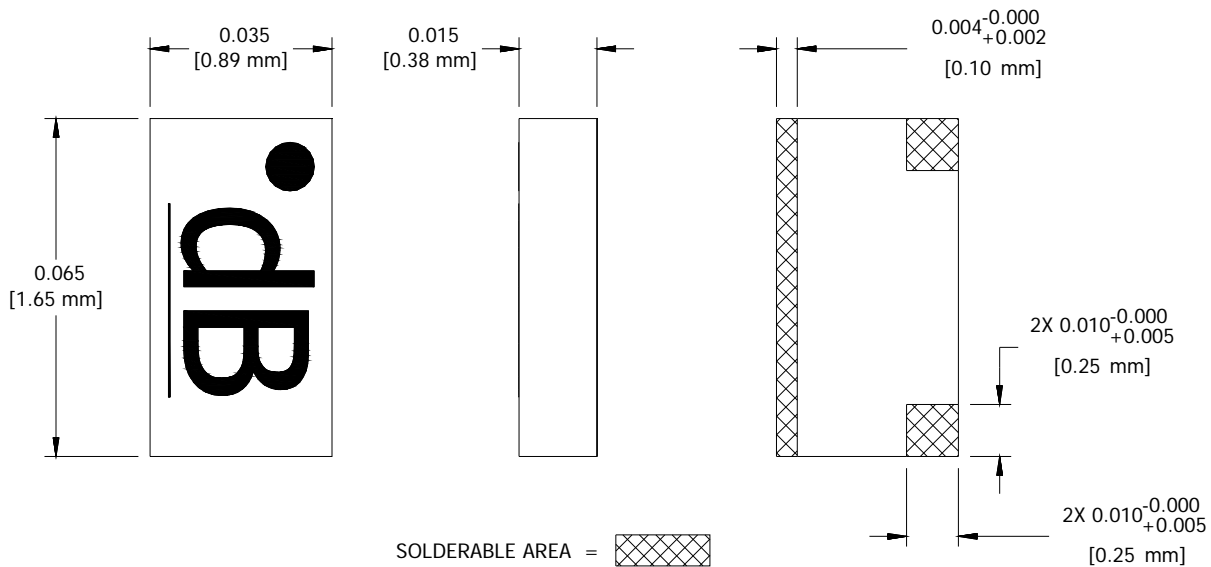
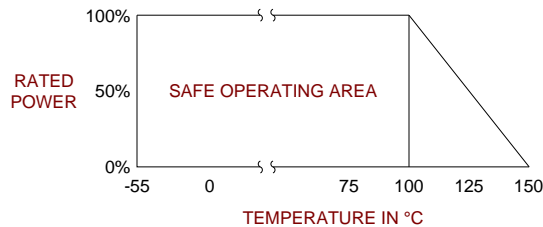
Sample Inspect Per MIL-STD-105, Level II, 1.0% AQL.
Visual and Mechanical Examination for Conformance to Outline Drawing
Measure DC Resistance and RF
Data Retention – Standard

5.0 PACKAGING

Standard Packaging: Tape and Reel

6.0 MECHANICAL

| | |
|---------------------|-----------------------------|
| Substrate Material: | Alumina |
| Resistive Film: | Tantalum nitride |
| Terminal Material: | Solderable Gold over Nickel |
| Protective Coating: | Silicon Nitride |
| Metric Dimensions: | Provided for reference only |



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

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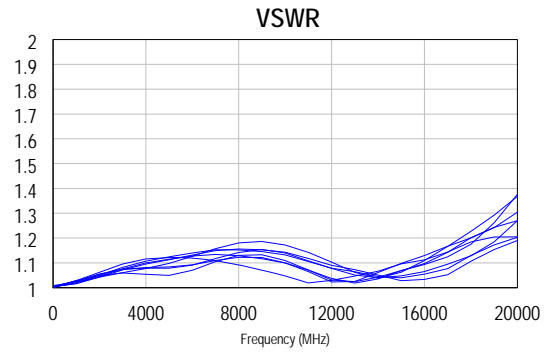
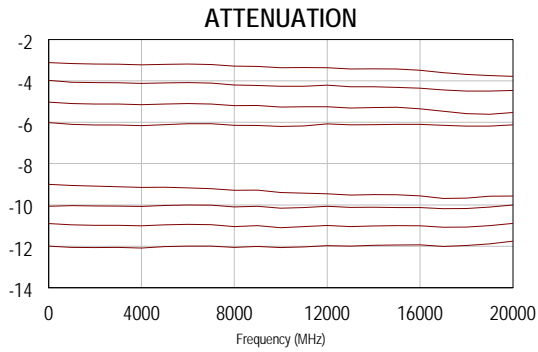
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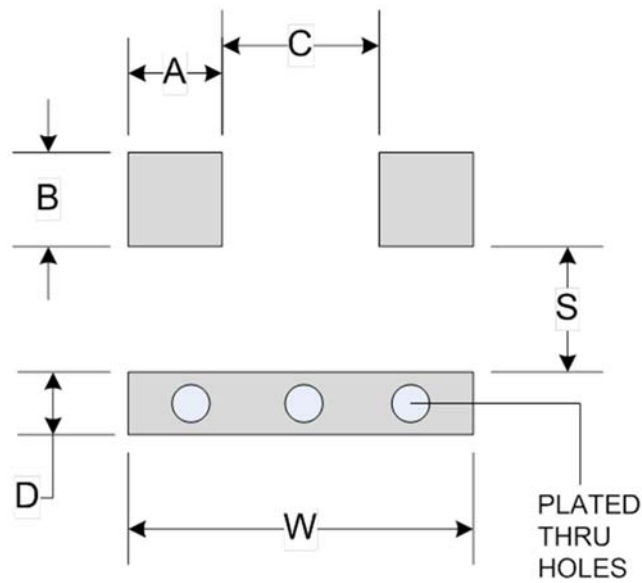
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7.0 TYPICAL PERFORMANCE AT 25°C



8.0 RECOMMENDED PCB LAYOUT

SUGGESTED MOUNTING



| Part Number | Inches | | | | | | mm | | | | | |
|-------------|--------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| | A | B | C | D | S | W | A | B | C | D | S | W |
| TS06xxF | 0.018 | 0.018 | 0.033 | 0.020 | 0.016 | 0.068 | 0.46 | 0.46 | 0.84 | 0.51 | 0.41 | 1.73 |