

ATTENUATOR CHIP 150 WATT



DATA SHEET

PART SERIES: 83A7048TEXX.00F

SHEET 1 OF 2
Dwg 83A7048TEXXF

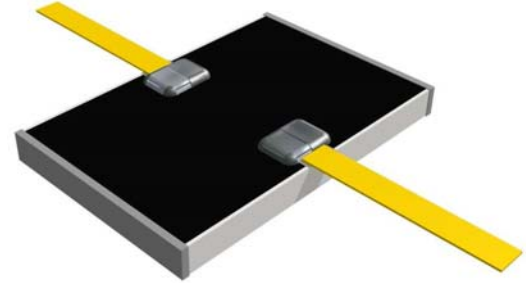
EN 13-3817
Revision -

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:

83A7048TEXX.00F

Attenuation Value

SPECIFICATIONS

1.0

ELECTRICAL

Nominal Impedance:	50 ohms
Frequency Range:	DC – 3.0 GHz
Attenuation Values Available:	20.0 dB and 30.0 dB
Attenuation Accuracy:	± 1.0 dB
Input Power CW:	150 watts @ 100 °C, derated linearly to zero power at 150 °C
Peak Power:	1500 watts (based on 10µs pulse width and 1% duty cycle)
VSWR:	DC – 1.0 GHz 1.15:1 Max 1.0 – 2.0 GHz 1.25:1 Max 2.0 – 3.0 GHz 1.30:1 Max

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:	None
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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:	Tray Packaging
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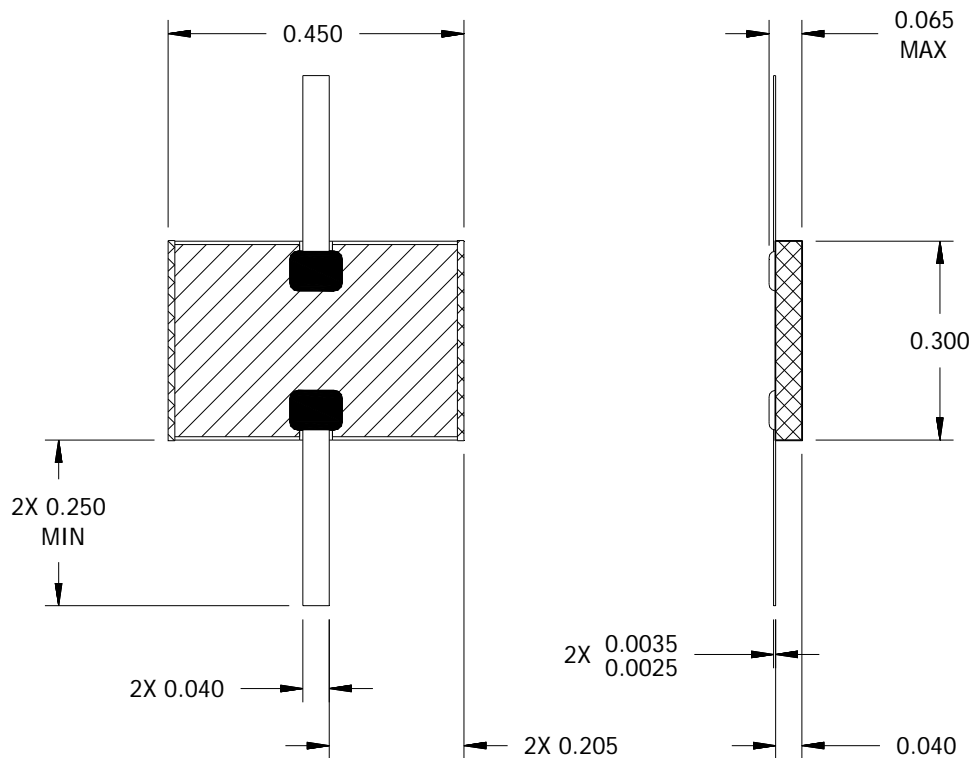
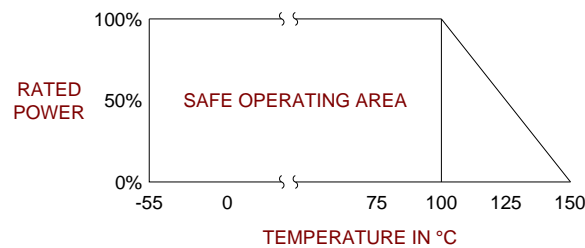
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6.0 MECHANICAL

Substrate Material:	Aluminum Nitride
Resistive Film:	Thin Film
Tab Material:	Beryllium Copper
Tab Finish:	Gold Plated
Metric Dimensions:	Provided for reference only



Unless Otherwise Specified: TOLERANCE: X.XX = ± 0.02 X.XXX = ± 0.010