

# ATTENUATOR FLANGE MOUNT 20 WATT



DATA SHEET

PART SERIES: 33A1001XX.XXF

SHEET 1 OF 2  
Dwg 33A1001F

EN 13-3530  
Revision-

## FEATURES

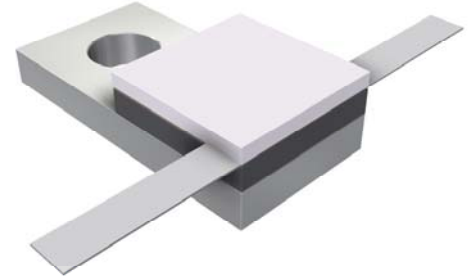
- Tab Launch
- High Power
- Integrated Heat Sink
- Low VSWR
- Easy Installation

## APPLICATIONS

- Mobile Networks
- Broadcast
- High Power Amplifiers
- Isolators
- Military
- Instrumentation

## GENERAL DESCRIPTION

EMC Technology offers the widest selection of flange mount attenuators worldwide. High power flange components offer excellent performance and the convenience of bolt on installation.



## ORDERING INFORMATION

### Part Identifier:

33A1001XX.XXF

└─ Attenuation Value

## SPECIFICATIONS

### 1.0 ELECTRICAL

Nominal Impedance:	50 ohms
Frequency Range:	DC - 4.0 GHz
Attenuation Values Available:	1 through 10 dB in 1 dB increments
Attenuation Accuracy:	1 through 10 dB $\pm$ 0.5 dB
Input Power CW:	20 watts @ 100°C heat sink, derated linearly to zero power at 150°C
Peak Power:	200 watts (based on 10us pulse width and 1% duty cycle)
VSWR:	DC - 2.0 dB 1.15:1 Max 2.0 - 4.0 dB 1.50:1 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: Logo and Attenuation value, legibility and permanency per MIL-STD-130

### 4.0 QUALITY ASSURANCE

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

Visual and Mechanical Examination for Conformance To Outline Drawing Requirements.  
Measure Attenuation and VSWR  
Data Retention – Standard

### 5.0 PACKAGING

Standard Packaging: Tray

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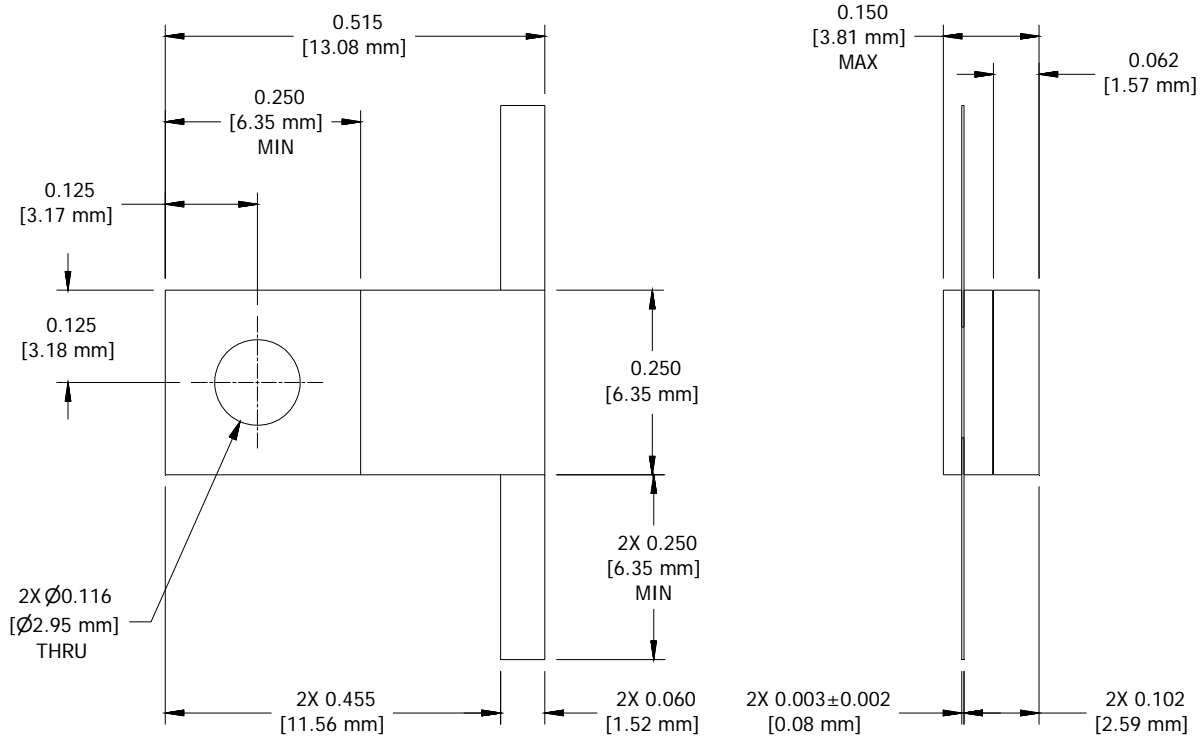
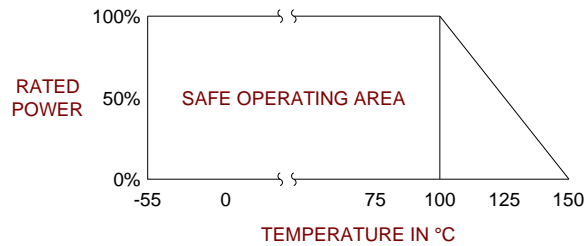
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## 6.0 MECHANICAL

Substrate Material:	Beryllium Oxide
Resistive Film:	Thin Film
Cover Material:	Alumina
Tab Material:	Beryllium Copper
Tab Finish:	Silver
Flange Material:	Copper
Flange Finish:	Nickel
Metric Dimensions:	Provided for reference only



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