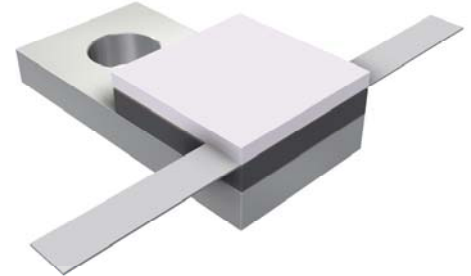# ATTENUATOR
FLANGE MOUNT 20 WATT

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 ± 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

ATTENUATOR
FLANGE MOUNT 20 WATT

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

RATED POWER

SAFE OPERATING AREA

100%
50%
0%

-55   0   75   100   125   150

TEMPERATURE IN °C

0.515
[13.08 mm]

0.250
[6.35 mm]
MIN

0.125
[3.17 mm]

0.125
[3.18 mm]

2X Ø0.116
[Ø2.95 mm]
THRU

0.250
[6.35 mm]

2X 0.250
[6.35 mm]
MIN

2X 0.455
[11.56 mm]

2X 0.060
[1.52 mm]

0.150
[3.81 mm]
MAX

0.062
[1.57 mm]

2X 0.003±0.002
[0.08 mm]

2X 0.102
[2.59 mm]
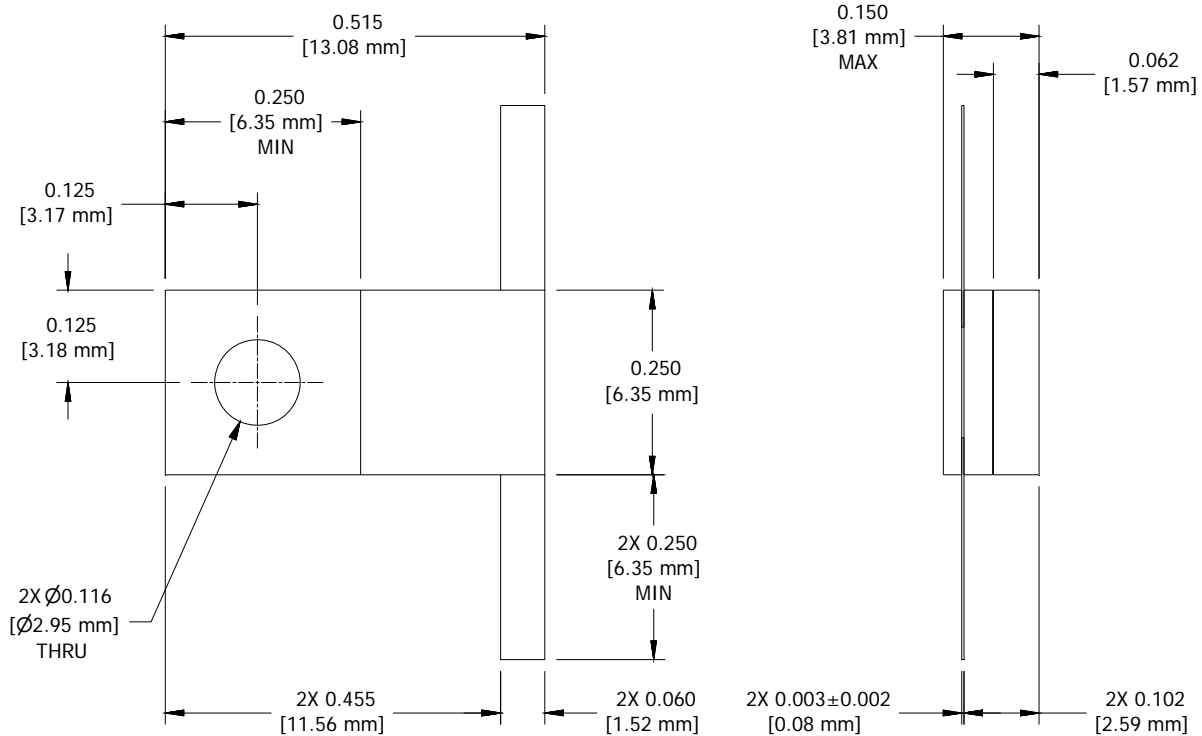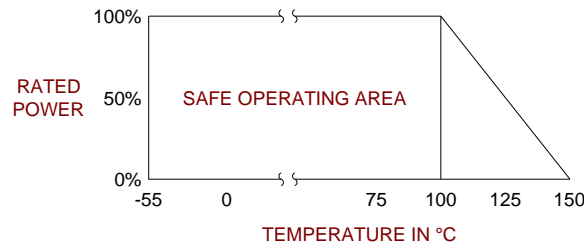
Unless Otherwise Specified: TOLERANCE: X.XX = ± 0.02   X.XXX = ± 0.010