ATTENUATOR
FLANGE MOUNT 200 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.
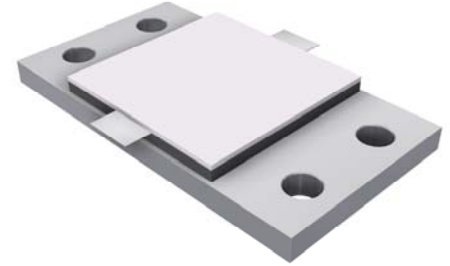
ORDERING INFORMATION

Part Identifier:

33-1004-XX.XX

Attenuation Value

SPECIFICATIONS

1.0 ELECTRICAL

Nominal Impedance:	50 ohms
Frequency Range:	DC - 1.0 GHz
Attenuation Values Available:	1 through 20 dB in 1 dB increments
Attenuation Accuracy:	1 through 10 dB ± 0.5 dB
	11 through 20 dB ± 1.0 dB
Input Power CW:	200 watts @ 100˚C heat sink, derated linearly to zero power at 150˚C
Peak Power:	2000 watts (based on 10us pulse width and 1% duty cycle)
VSWR:	1.20:1 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 Part Number; legibility and permancency 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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DATA SHEET   **PART SERIES: 33-1004-XX.XX**

6.0 MECHANICAL

Substrate Material:	Beryllium Oxide
Resistive Film:	Nichrome
Cover Material:	Alumina
Tab Material:	Beryllium Copper
Tab Finish:	Tin/Lead
Flange Material:	Copper
Flange Finish	Nickel
Metric Dimensions:	Provided for reference only

RATED POWER

100%

50% — SAFE OPERATING AREA

0%

-55   0   75   100   125   150

TEMPERATURE IN °C

1.900
[48.26 mm]

0.175
[4.44 mm]

1.550
[39.37 mm]

0.245
[6.22 mm]
MAX

0.125
[3.18 mm]

1.000
[25.40 mm]

0.270
[6.86 mm]

1.040
[26.42 mm]

0.500
[12.70 mm]

1.000
[25.40 mm]

4X Ø0.170
[Ø4.32 mm]
THRU

2X 0.825
[20.95 mm]

2X 0.250
[6.35 mm]

2X 0.125
[3.17 mm]
MIN

2X 0.005±0.002
[0.13 mm]

2X 0.185
[4.70 mm]
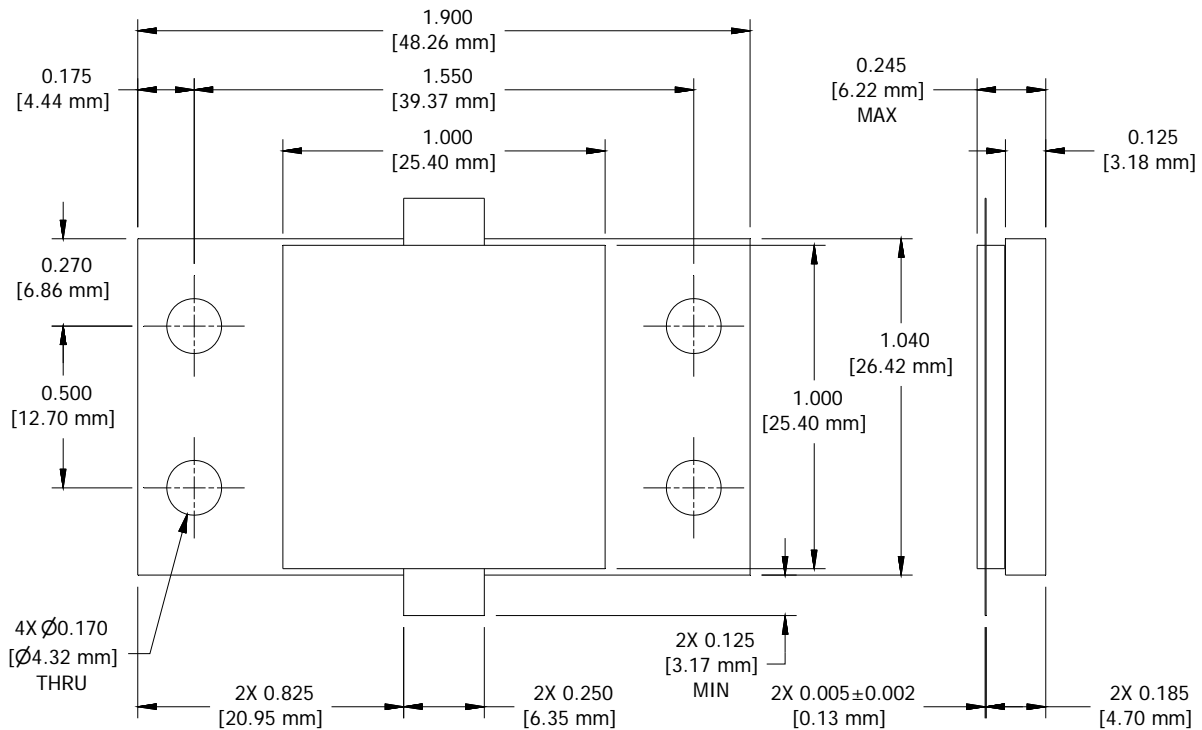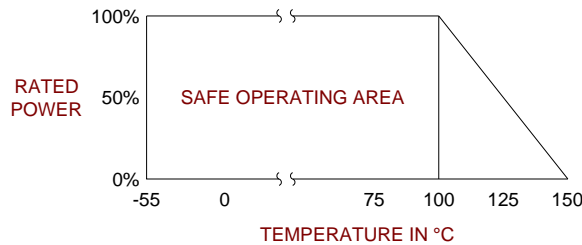
Unless Otherwise Specified: TOLERANCE: X.XX = ± 0.02   X.XXX = ± 0.010