ATTENUATOR
TAB & COVER 20 WATT

EMC Technology

FEATURES

Tab Launch
High Power
Excellent Heat Transfer
Low VSWR
Easy Installation
Wide Attenuation Offering

APPLICATIONS

Mobile Networks
Broadcast
High Power Amplifiers
Isolators
Military
Instrumentation

GENERAL DESCRIPTION

EMC Technology offers the widest selection of flangeless attenuators worldwide. Tab and cover components offer the highest performance of any style of attenuator component.
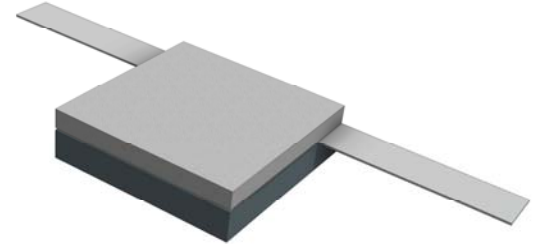
ORDERING INFORMATION

Part Identifier:

83-3001TC-XX.XX

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:	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 Part Number; 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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6.0 MECHANICAL

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

RATED POWER

100%

50%

0%

SAFE OPERATING AREA

-55   0   75   100   125   150

TEMPERATURE IN °C

0.250
[6.35 mm]

0.250
[6.35 mm]

2X 0.250
[6.35 mm]
MIN

2X 0.060
[1.52 mm]

0.085
[2.16 mm]
MAX

2X 0.003±0.002
[0.08 mm]

2X 0.040
[1.02 mm]
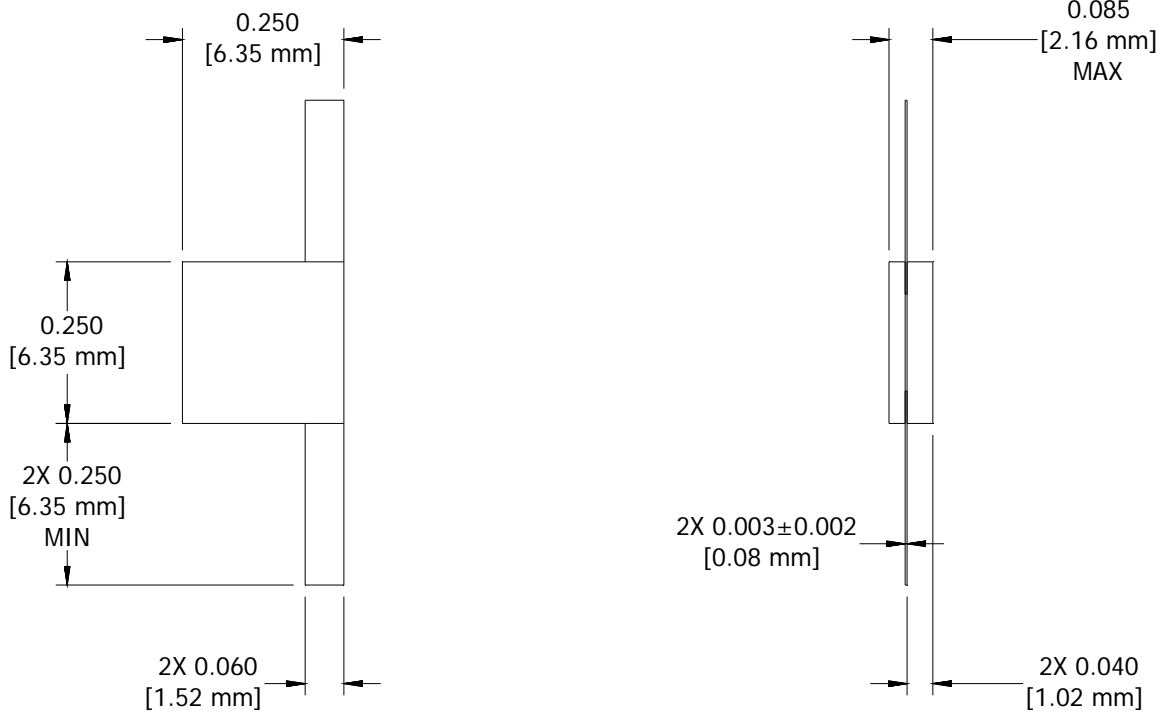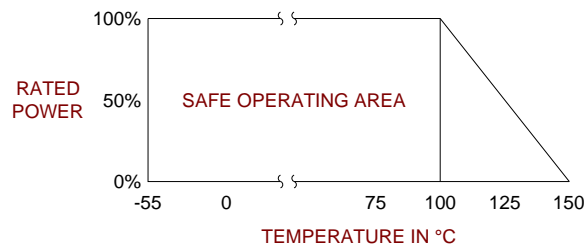
Unless Otherwise Specified: TOLERANCE: X.XX = ± 0.02   X.XXX = ± 0.010