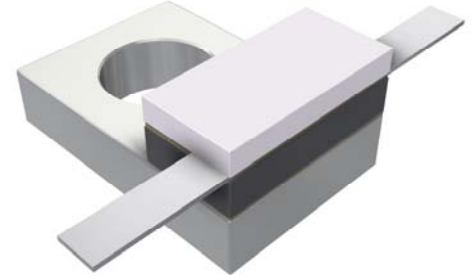# ATTENUATOR
FLANGE MOUNT 10 WATT

EMC
Technology

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:

33-7003-XX.XX

Attenuation Value

SPECIFICATIONS

1.0 ELECTRICAL

Nominal Impedance:	50 ohms
Frequency Range:	DC - 2.7 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:	10 watts @ 100°C heat sink, derated linearly to zero power at 150°C
Peak Power:	100 watts (based on 10us pulse width and 1% duty cycle)
VSWR:	1.15:1 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:	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

smiths microwave   **Form 423F108   Rev-**   **Cage Codes: 24602 / 2Y194**   **www.emc-rflabs.com • +1 772-286-9300**
Specifications are Subject to Change Without Notice
AS 9100, ISO 9001 and 14001 Certified

ATTENUATOR
FLANGE MOUNT 10 WATT

DATA SHEET   **PART SERIES: 33-7003-XX.XX**

SHEET 1 OF 2
Dwg 33-7003

EN 13-3530
Revision-

6.0 MECHANICAL

Substrate Material:	Aluminum Nitride
Resistive Film:	Nichrome
Cover Material:	Alumina Oxide
Tab Material:	Beryllium Copper
Tab Finish:	Nickel
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

0.300
[7.62 mm]

0.200
[5.08 mm]
MIN

0.100
[2.54 mm]

0.100
[2.54 mm]

2X ⌀0.116
[⌀2.95 mm]
THRU

0.200
[5.08 mm]

2X 0.125
[3.18 mm]
MIN

2X 0.260
[6.60 mm]

2X 0.040
[1.02 mm]

0.150
[3.81 mm]
MAX

0.062
[1.57 mm]

2X 0.005±0.002
[0.13 mm]

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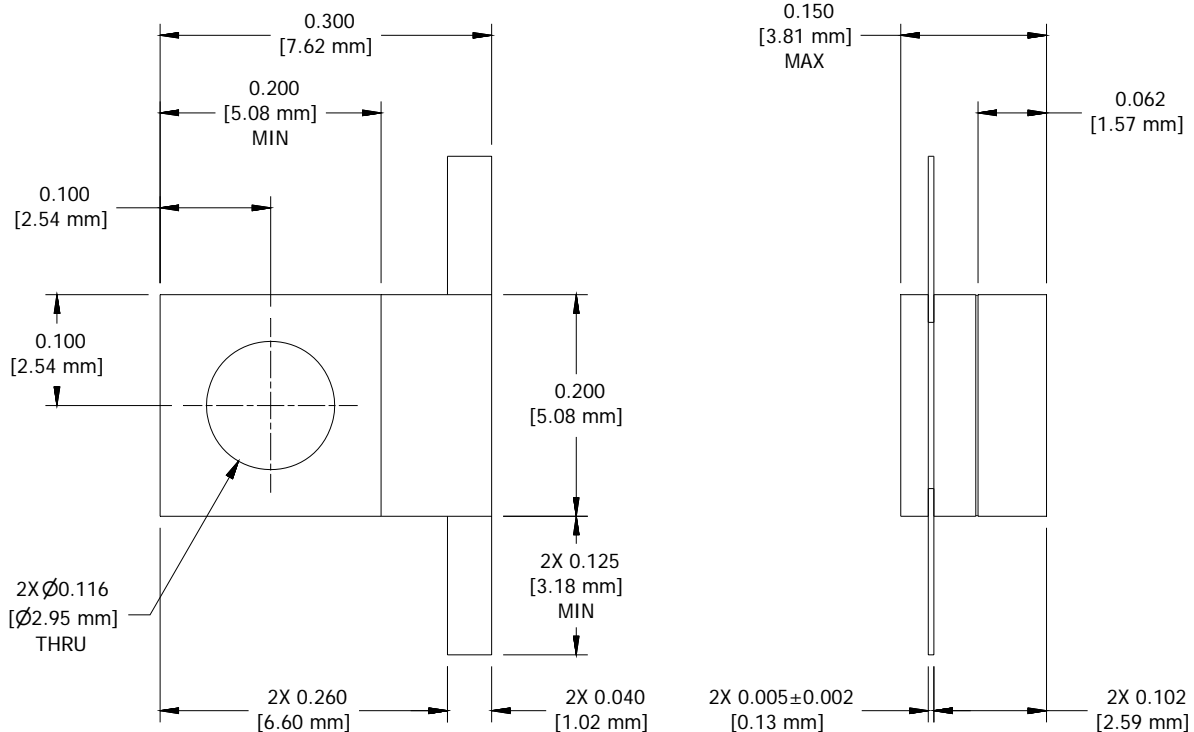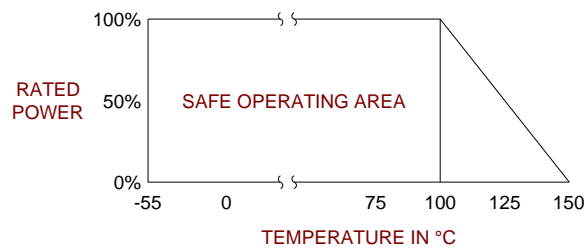
Unless Otherwise Specified: TOLERANCE: X.XX = ± 0.02   X.XXX = ± 0.010