RESISTOR
FLANGE MOUNT 500 WATT

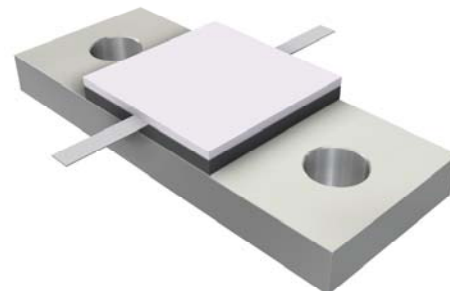## FEATURES

Tab Launch
High Power
Integrated Heat Sink
Low Capacitance
Easy Installation
Wide Resistance Range

APPLICATIONS

Broadcast
High Power Filters
High Power Amplifiers
Isolators
Military
Instrumentation

GENERAL DESCRIPTION

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

ORDERING INFORMATION

Part Identifier:

31A1123XXF

— Tolerance
— Resistance Value

SPECIFICATIONS

1.0 ELECTRICAL

Resistance Range:	10 - 150 OHMS
Resistance Tolerance:	±5% standard 1% and 2% available
Typical Capacitance:	1.5 pF
Input Power CW:	500 watts @ 100˚C heat sink, derated linearly to zero power at 150˚C
Peak Power:	5000 watts (based on 10us pulse width and 1% duty cycle)

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

Visual and Mechanical Inspection:	Per 824W107
DC Resistance Check:	100% DC Resistance Check
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:	Silver plated
Flange Material:	Copper
Flange Finish:	Nickel
Metric Dimensions:	Provided for reference only

RATED POWER vs TEMPERATURE IN °C — SAFE OPERATING AREA

0.188 [4.76 mm]
1.250 [31.75 mm]
0.875 [22.22 mm]
0.500 [12.70 mm]
0.215 [5.46 mm] MAX
0.125 [3.17 mm]
0.250 [6.35 mm]
0.500 [12.70 mm]
2X 0.250 [6.35 mm] MIN
2X Ø0.160 [Ø4.06 mm] THRU
2X 0.595 [15.11 mm]
2X 0.060 [1.52 mm]
2X 0.003±0.002 [0.08 mm]
2X 0.168 [4.27 mm]
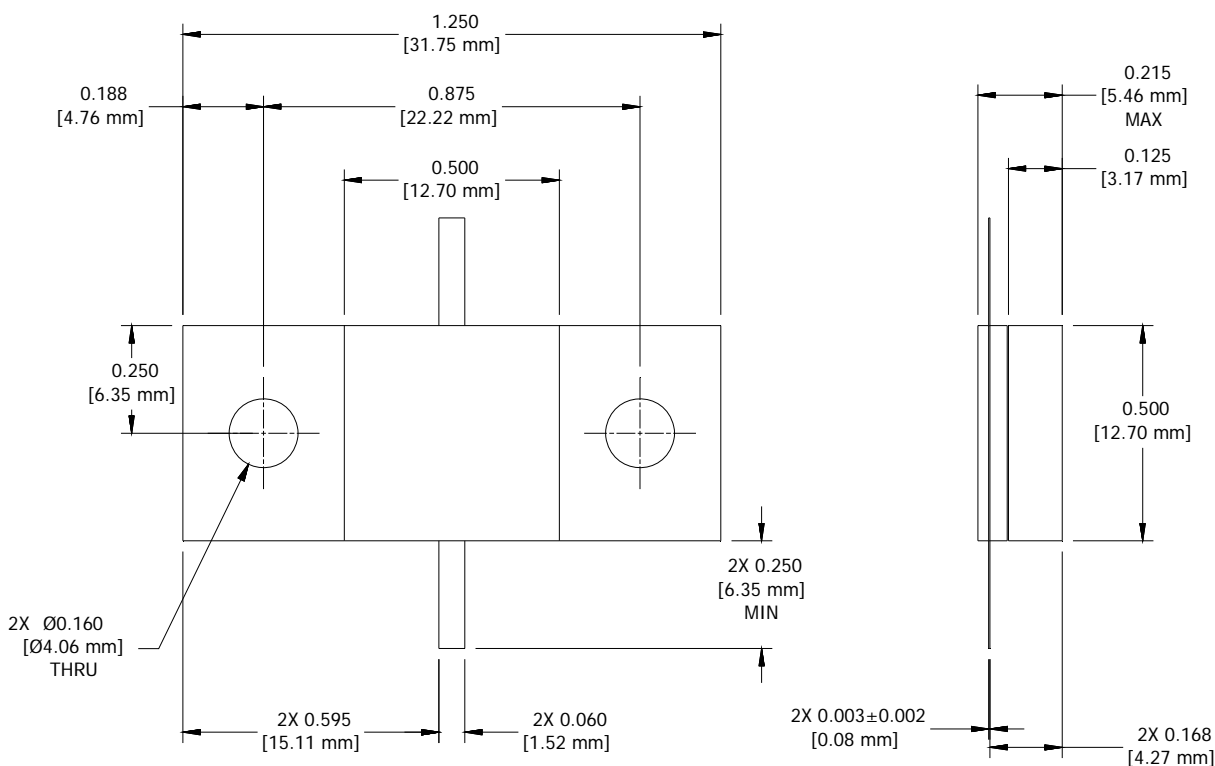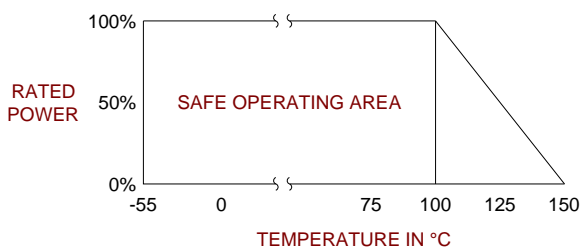
Unless Otherwise Specified: TOLERANCE: X.XX = ± 0.02   X.XXX = ± 0.010

smiths microwave

Form 423F104 Rev-

Cage Codes: 24602 / 2Y194
Specifications are Subject to Change Without Notice

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AS 9100, ISO 9001 and 14001 Certified