

# RESISTOR

## FLANGE MOUNT 60 WATT



DATA SHEET

PART SERIES: 31-7109-X-X

SHEET 1 OF 2  
Dwg 31-7109

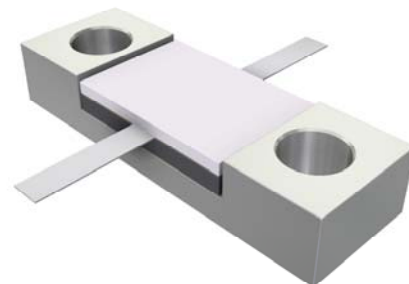
EN 13-3527  
Revision-

### 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:

31-7109-X-X

└─┬─ Tolerance  
└─ Resistance Value

### SPECIFICATIONS

#### 1.0 ELECTRICAL

Resistance Range:	10 - 250 OHMS
Resistance Tolerance:	±5% standard 1% and 2% available
Typical Capacitance:	0.45 pF
Input Power CW:	60 watts @ 100°C heat sink, derated linearly to zero power at 150°C
Peak Power:	600 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
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#### 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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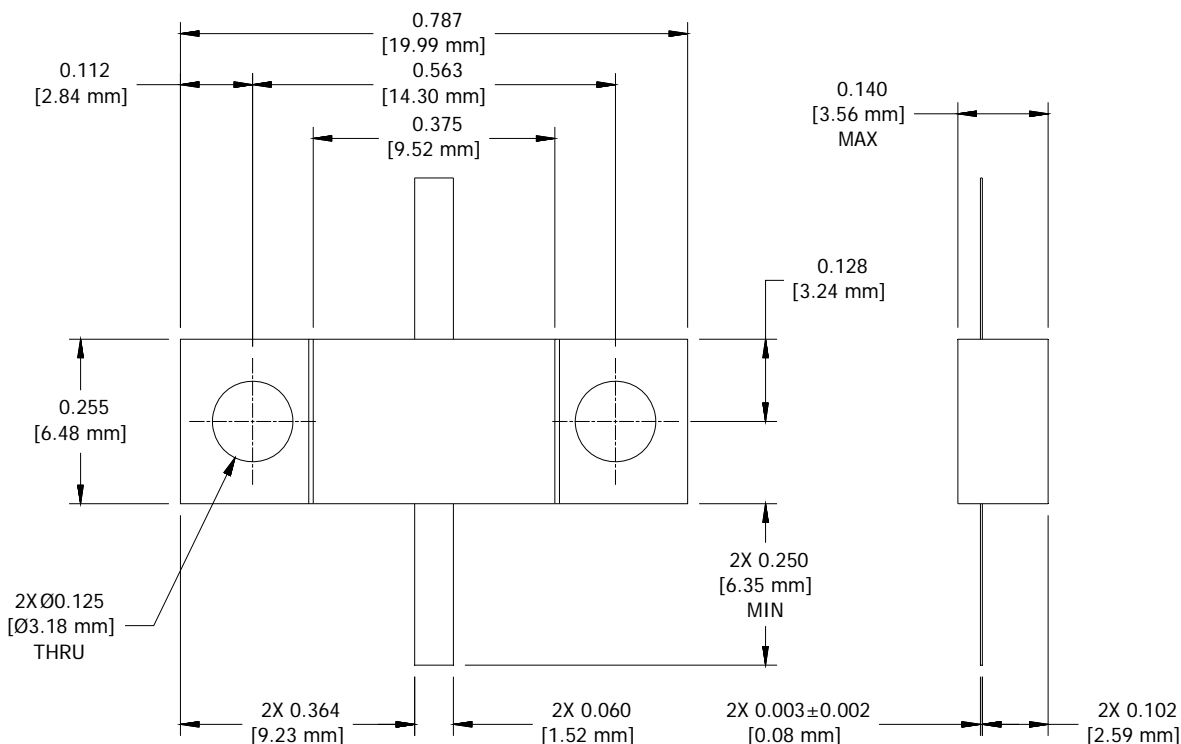
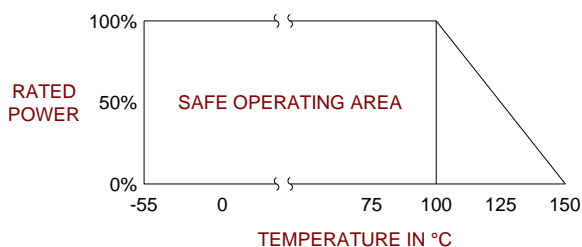
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## 6.0 MECHANICAL

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



Unless Otherwise Specified: TOLERANCE: X.XX = ± 0.02 X.XXX = ± 0.010