

# RESISTOR

## TAB & COVER 10 WATT



DATA SHEET

PART SERIES: 81A3001TCXXF

SHEET 1 OF 2  
Dwg 81A3001TCF

EN 13-3531  
Revision-

### FEATURES

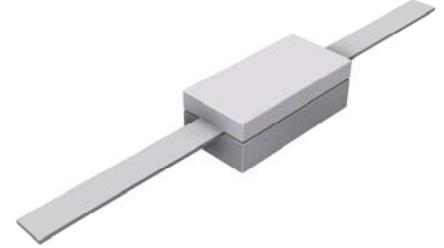
- Wide Band Response
- High Power
- Low Capacitance
- Easy Installation
- Excellent Heat Transfer
- Wide Resistance Range

### APPLICATIONS

- Broadcast
- High Power Filters
- High Power Amplifiers
- Isolators
- Military
- Instrumentation

### GENERAL DESCRIPTION

EMC Technology offers the widest selection of flangeless resistors worldwide. Tab and cover components offer the highest performance of any style of resistor component.



### ORDERING INFORMATION

#### Part Identifier:

81A3001TCXXF

┌┐ Tolerance  
└┘ Resistance Value

### SPECIFICATIONS

#### 1.0 ELECTRICAL

|                       |   |
|-----------------------|---|
| Resistance Range:     | 5 - 200 OHMS  |
| Resistance Tolerance: | ±5% standard 1% and 2% available                                    |
| Typical Capacitance:  | 0.8 pF  |
| 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)             |

#### 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: | Resistance Value |
|---------------|------------------|

#### 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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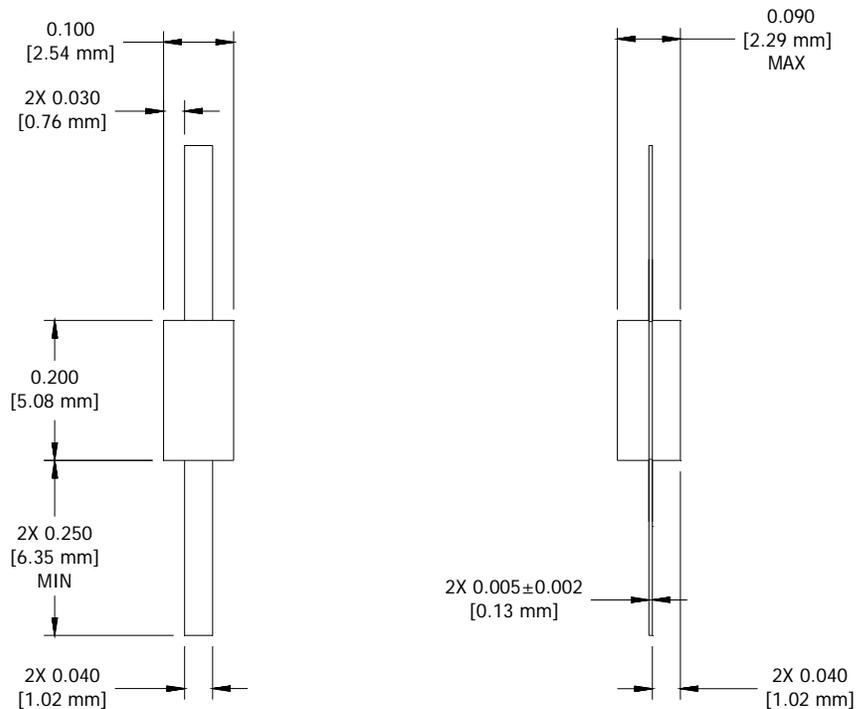
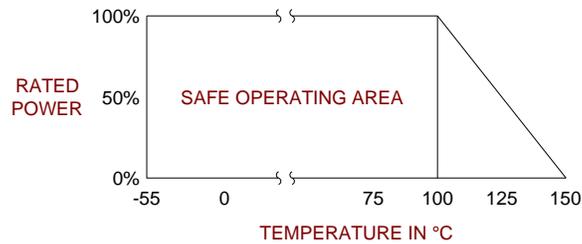
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## 6.0 MECHANICAL

|                     |                             |
|---------------------|-----------------------------|
| Substrate Material: | Beryllium Oxide             |
| Resistive Film:     | Thin Film                   |
| Cover Material:     | Alumina                     |
| Tab Material:       | Beryllium Copper            |
| Tab Finish:         | Silver Plated               |
| Metric Dimensions:  | Provided for reference only |



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