

# RESISTOR CHIP 150 WATT



DATA SHEET

PART SERIES: 81-3006A-X-X

SHEET 1 OF 2  
Dwg 81-3006A

EN 13-3509  
Revision-

## FEATURES

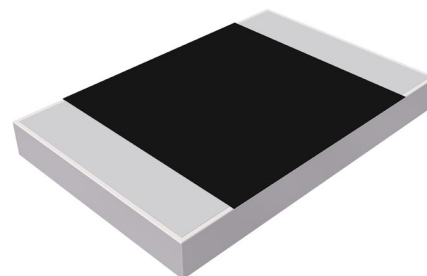
- Wide Band Operation
- High Power
- Direct Attached
- Low Capacitance
- Easy Installation
- Wide Resistance Range

## APPLICATIONS

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

## GENERAL DESCRIPTION

EMC Technology offers the widest selection of chip resistors worldwide. Chip components are offered in both thick and thin film resistive material and available in Alumina, Aluminium Nitride, Beryllium Oxide and CVD Diamond.



## ORDERING INFORMATION

Part Identifier:

81-3006A-X-X

└─┬─ Tolerance  
└─┬─ Resistance Value

## SPECIFICATIONS

### 1.0 ELECTRICAL

|                       |  |
|-----------------------|--|
| Resistance Range:     | 7 - 250 OHMS   |
| Resistance Tolerance: | ±5% standard 1% and 2% available                                     |
| Typical Capacitance:  | 1.33 pF  |
| Input Power CW:       | 150 watts @ 100°C heat sink, derated linearly to zero power at 150°C |
| Peak Power:           | 1500 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: | No Marking |
|---------------|------------|

### 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: | Tape and Reel |
|---------------------|---------------|

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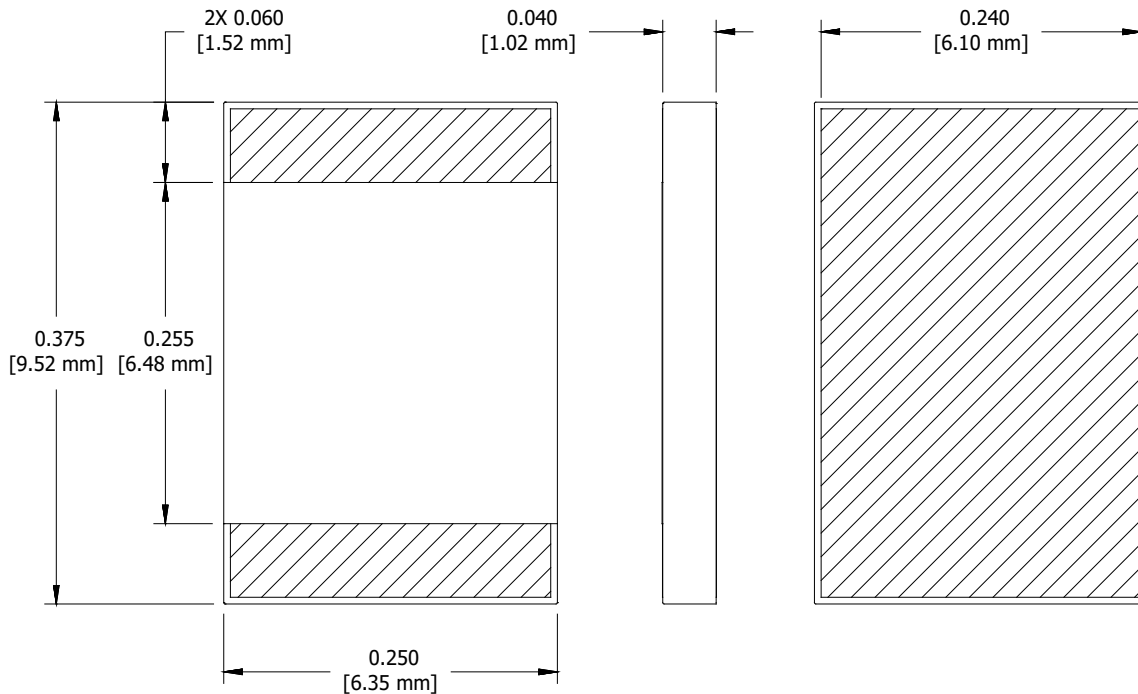
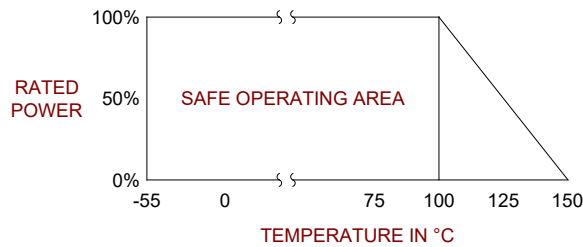
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## 6.0 MECHANICAL

|                     |  |
|---------------------|--|
| Substrate Material: | Beryllium Oxide                            |
| Resistive Film:     | Thin Film                                  |
| Terminal Material:  | Thick film, Nickel barrier Tin/Lead plated |
| Metric Dimensions:  | Provided for reference only                |



Unless Otherwise Specified: TOLERANCE: X.XX =  $\pm 0.02$  X.XXX =  $\pm 0.010$