# TERMINATION
# CHIP 15 WATT

**DATA SHEET** **PART SERIES: 82-3999**

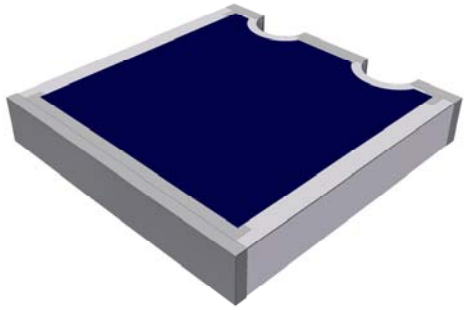


## FEATURES

- Wide Band Operation
- High Power
- Direct Attached
- Low VSWR
- Easy Installation

## APPLICATIONS

- Mobile Networks
- Broadcast
- High Power Amplifiers
- Isolators
- Military
- Instrumentation



## GENERAL DESCRIPTION

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

## ORDERING INFORMATION

**Part Identifier: 82-3999**

## SPECIFICATIONS

### 1.0 ELECTRICAL

| | |
|---|---|
| Nominal Impedance: | 50 ohms |
| Frequency Range: | DC - 2.0 GHz |
| VSWR: | 1.20:1 Max |
| Input Power CW: | 15 Watts @ 100°C heat sink, derated linearly to zero power and 150°C |
| Peak Power: | 150 Watts (based on 10us pulse width and 1% duty cycle) |
| DC Resistance: | 50 Ω ±5% |

### 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

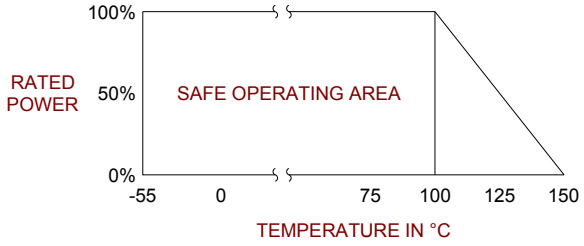
| | |
|---|---|
| Visual and Mechanical Inspection: | Per 824W107 |
| DC Resistance Check: | 100% DC Resistance Check |
| Data Retention: | Standard |

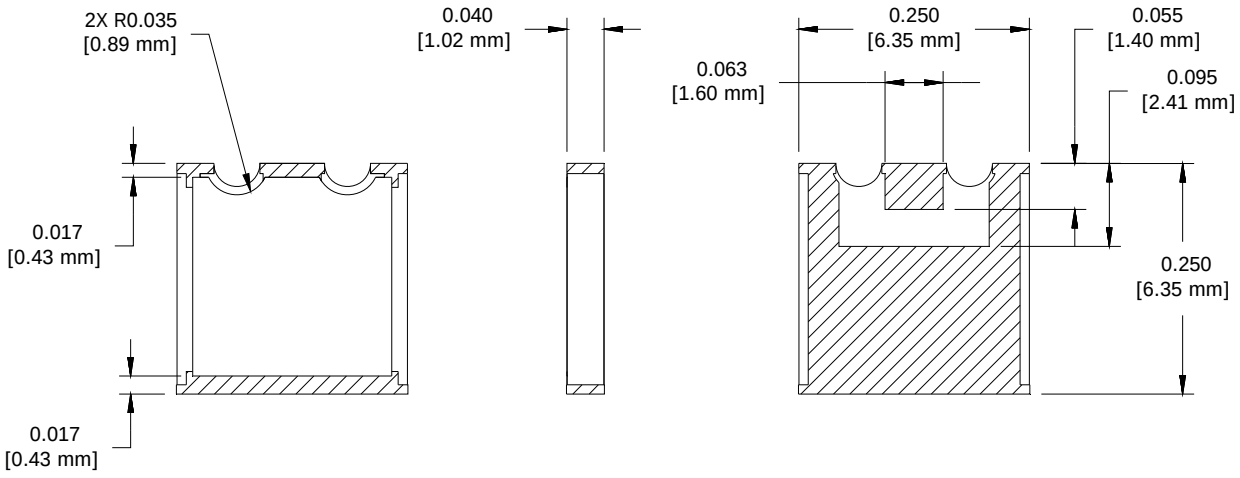
### 5.0 PACKAGING

| | |
|---|---|
| Standard Packaging: | Tape and Reel |

## 6.0 MECHANICAL

| | |
|---|---|
| Substrate Material: | Beryllium Oxide |
| Resistive Film: | Thin Film |
| Terminal Material: | Tin/Lead |
| Metric Dimensions: | Provided for reference only |




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