

# ATTENUATOR CHIP 7 WATT



DATA SHEET

PART SERIES: 83A8054XX.XXF

SHEET 1 OF 2  
Dwg 83A8054F

EN 13-3506  
Revision -

## FEATURES

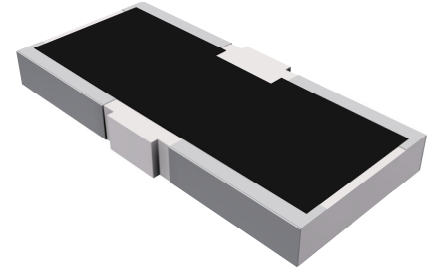
- Small Footprint
- High Power
- Surface Mount
- Low VSWR
- Easy Installation
- Wide Attenuation Offering

## APPLICATIONS

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

## GENERAL DESCRIPTION

EMC Technology offers the widest selection of chip attenuators worldwide. Chip components are offered in Alumina, Aluminum Nitride, Beryllium Oxide, and CVD diamond for maximum performance.



## ORDERING INFORMATION

Part Identifier:

83A8054XX.XXF

Attenuation Value

## SPECIFICATIONS

### 1.0 ELECTRICAL

Nominal Impedance:	50 ohms
Frequency Range:	DC – 3.0 GHz
Attenuation Values Available:	1 through 20 dB in 1 dB increments
Attenuation Accuracy:	1 dB through 4 dB $\pm 0.3$ dB 5 dB through 20 dB $\pm 0.5$ dB
Input Power CW:	7 watts @ 100°C heat sink, derated linearly to zero power at 150°C
Peak Power:	70 watts (based on 10us pulse width and 1% duty cycle)
VSWR:	1 - 4 GHz 1.25:1 Max 5 - 20 GHz 1.35:1 Max

### 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: dB value, Input/Output identification, legibility and permanency per MIL-STD-130

### 4.0 QUALITY ASSURANCE

Sample Inspect Per MIL-STD-105, Level II, 1.0% AQL.  
Visual and Mechanical Inspection for Conformance to Outline Drawing  
Measure Attenuation and VSWR  
Data Retention - Standard

### 5.0 PACKAGING

Standard Packaging: Tape and Reel

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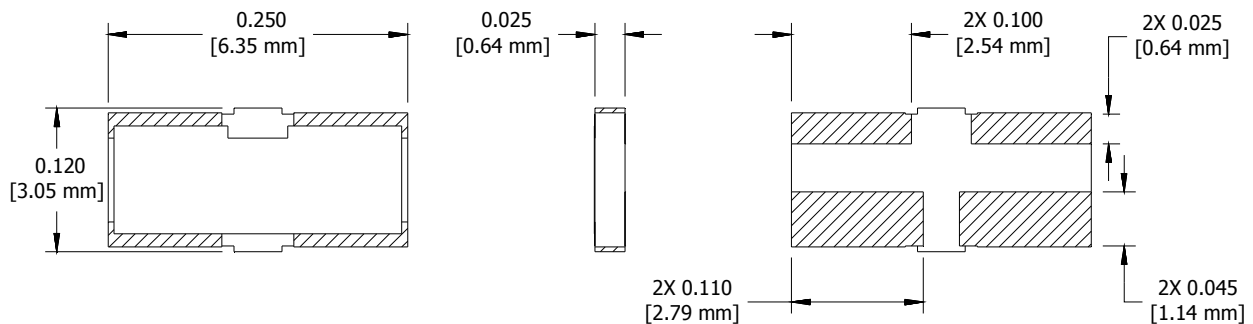
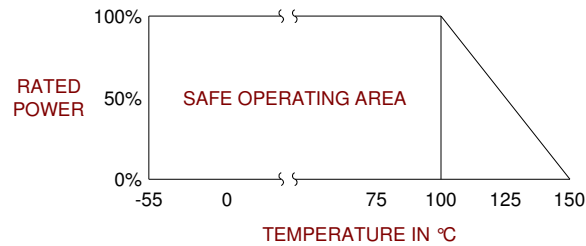
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## 6.0 MECHANICAL

Substrate Material:	Alumina
Resistive Film:	Thick film
Terminal Material:	Thick film, silver plated
Metric Dimensions:	Provided for reference only



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