ATTENUATOR
CHIP 120 WATT

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.
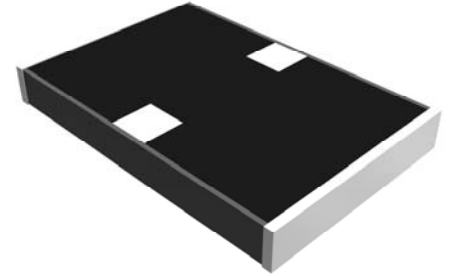
ORDERING INFORMATION

Part Identifier:

83-7026-<u>XX.XX</u>

Attenuation Value

SPECIFICATIONS

1.0 ELECTRICAL

Nominal Impedance:	50 ohms
Frequency Range:	DC – 2.4 GHz
Attenuation Values Available:	10 dB
Attenuation Accuracy:	±1.5 dB
Input Power CW:	120 watts @ 85˚C heat sink, derated linearly to zero power at 150˚C
Peak Power:	1200 watts (based on 10us pulse width and 1% duty cycle)
VSWR:	1.20:1 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:	None

4.0 QUALITY ASSURANCE

<u>Sample Inspect Per MIL-STD-105, Level II, 1.0% AQL.</u>
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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DATA SHEET   **PART SERIES: 83-7026-XX.XX**

SHEET 2 OF 2
Dwg 83-7026

EN 13-3506
Revision -

6.0 MECHANICAL

Substrate Material:	Aluminum Nitride
Resistive Film:	Nichrome
Terminal Material:	Thick film, Tin/Lead plated
Metric Dimensions:	Provided for reference only

RATED POWER

100%

50%

0%

SAFE OPERATING AREA

-55   0   85   150

TEMPERATURE IN °C

2X 0.045
[1.14 mm]

2X 0.045
[1.14 mm]

0.040
[1.02 mm]

0.230
[5.84 mm]

0.350
[8.89 mm]
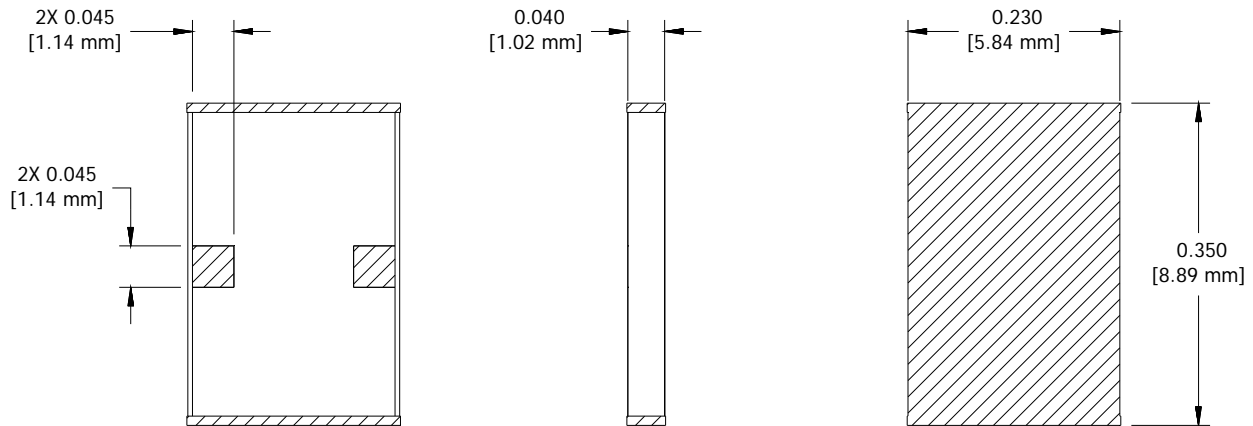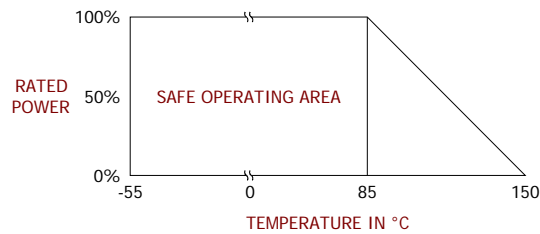
Unless Otherwise Specified: TOLERANCE: X.XX = ± 0.02   X.XXX = ± 0.010