ATTENUATOR
CHIP 200 mW

EMC Technology

DATA SHEET   **PART SERIES: KFAXX.00-X**

SHEET 1 OF 3
Dwg 1011765

EN 16-0836
Revision D

FEATURES

Small Footprint
Excellent High Frequency Performance
Surface Mount
Low VSWR
Easy Installation
Wide Attenuation Offering

APPLICATIONS

Satellite Communication
Point-to-Point Radio
Military
Instrumentation
Power Amplifiers

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: KFAXX.00-X

ATTENUATION VALUE ──────┘   └────── FREQUENCY RANGE

5 = 16 – 36 GHz

SPECIFICATIONS

1.0 ELECTRICAL

Nominal Impedance:	50 ohms
Frequency Range:	16 – 36 GHz
Attenuation Values Available:	0-10 dB
Attenuation Accuracy:	± 0.75 dB
Input Power CW:	200 mW Max
Power Dissipation:	200 mW @ +100°C, derated linearly to zero watt @ +150°C.
VSWR:	1.35:1 Typical

2.0 ENVIRONMENTAL

Operating Temperature:	-55˚C to +150˚C
Non-operating Temperature:	-65˚C to +150˚C

3.0 MARKING

Unit Marking:	dB value

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

Measure DCR according to table 2.

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TABLE 2

dB value	DCR (ohms)	Tolerance
0.0	Continuity only	
1.0	10.35	10.0%
2.0	21.15	10.0%
3.0	32.40	10.0%
4.0	43.00	8.0%
5.0	55.00	8.0%
6.0	66.00	8.0%
7.0	59.00	5.0%
8.0	70.00	5.0%
9.0	80.00	5.0%
10.0	93.00	5.0%

5.0 PACKAGING

Standard Packaging: Waffle packing

6.0 MECHANICAL

Substrate Material: Alumina

Resistive Film: Thick film

Terminal Material: Thick film, bondable gold

Protective Coating: Epoxy based

Ground Plane: Thick film

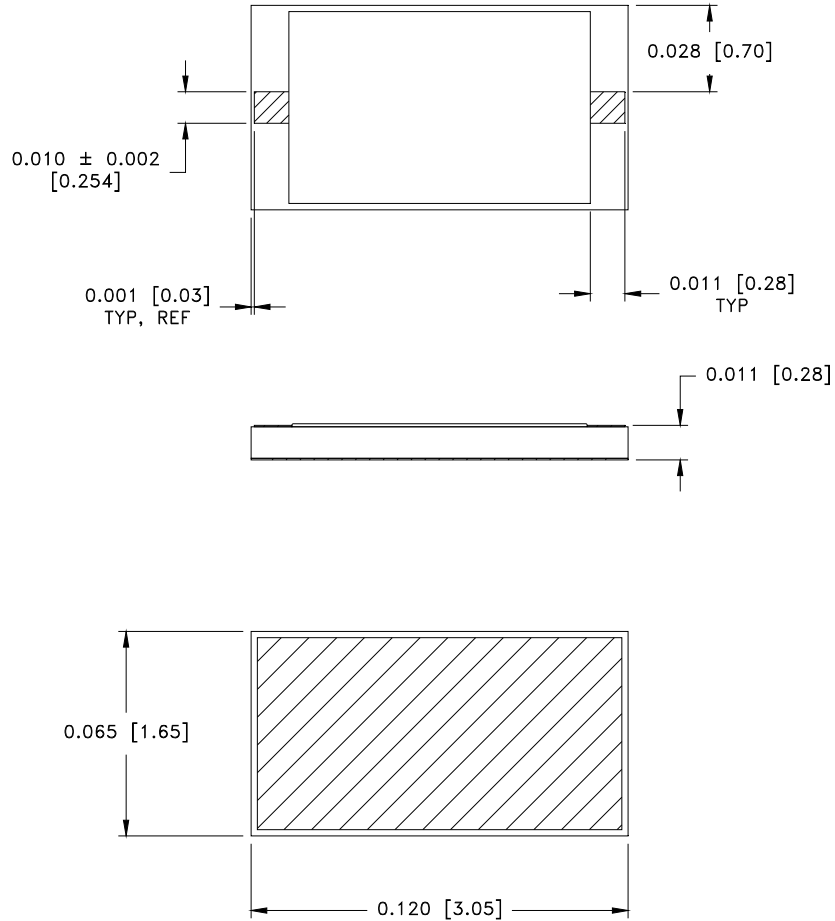Metric Dimensions: Provided for reference only

ATTENUATOR
CHIP 200 mW

0.028 [0.70]

0.010 ± 0.002
[0.254]

0.001 [0.03]
TYP, REF

0.011 [0.28]
TYP

0.011 [0.28]

0.065 [1.65]

0.120 [3.05]

Note: Specifications are subject to change.

Unless Otherwise Specified: TOLERANCE: X.XX = ± 0.01   X.XXX = ± 0.005