

# RESISTIVE POWER DIVIDER

DATA SHEET

PART SERIES: RPD0412F

SHEET 1 OF 3  
Dwg 1015385EN 15-1471  
Revision B

## FEATURES

Low Profile Surface Mount Package  
Simplified Thermal Management  
Power Dividing

## APPLICATIONS

Power Amplifiers  
Antenna Feeds  
Phased Array Radar  
Satellites  
Instrumentation



## GENERAL DESCRIPTION

EMC Technology offers high performance 2 to 4 Way resistive power dividers ranging from DC to 12 GHz in a low profile, surface mount package. These devices are designed for demanding applications where excellent broadband response and power handling are required.

## ORDERING INFORMATION

Part Identifier: **RPD0412F**

## SPECIFICATIONS

### 1.0 ELECTRICAL

Frequency	Division	Attenuation	VSWR	Impedance	Power Handling
DC - 6 GHz	4	-12.0 dB Typical	1.3:1 Typical	50 Ω	1 Watts CW
6 - 12 GHz	4	-12.0 dB Typical	2:1 Typical	50 Ω	1 Watts CW

### 2.0 ENVIRONMENTAL

Operating Temperature: -55°C to +150°C

### 3.0 MARKING

0412, Pin 1 Indicator

### 4.0 QUALITY ASSURANCE

Sample Inspect Per MIL-STD-105, Level II, 1.0% AQL.

Visual and Mechanical Examination for Conformance To Outline Drawing Requirements.

Measure Amplitude Balance and VSWR

#### Test Data Requirements

No Test Data Required

Data Retention – 12 months

### 5.0 PACKAGING

Standard: Tape and Reel

Note: Specifications are subject to change.

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SHEET 2 OF 3  
Dwg 1015385

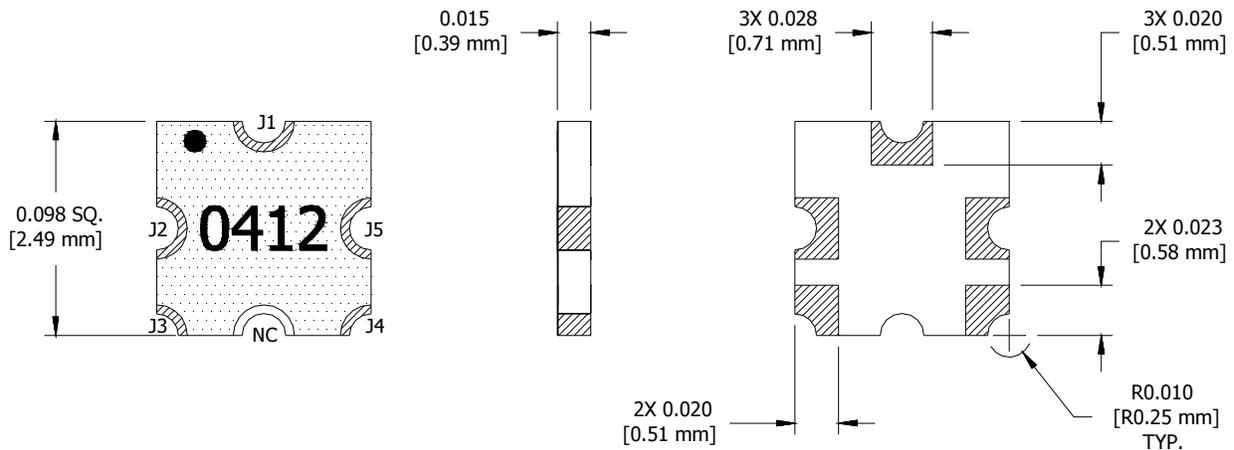
EN 15-1471  
Revision B

### 6.0 MECHANICAL

Substrate Material: Alumina  
Terminal Material: Thick film, Silver plated  
Resistive Material: Thick Film

### PIN CONFIGURATION

Port	DESCRIPTION
J1	INPUT
J2	- 12 dB Output
J3	- 12 dB Output
J4	- 12 dB Output
J5	- 12 dB Output



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

Note: Specifications are subject to change.

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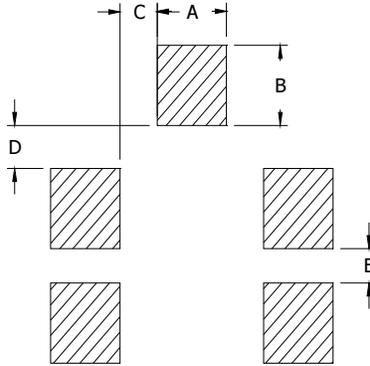
DATA SHEET

PART SERIES: RPD0412F

SHEET 3 OF 3  
Dwg 1015385

EN 15-1471  
Revision B

### 7.0 SUGGESTED LAND PATTERN



DIMENSION									
INCHES					METRIC (mm)				
A	B	C	D	E	A	B	C	D	E
0.028	0.028	0.015	0.015	0.012	0.71	0.71	0.38	0.38	0.30