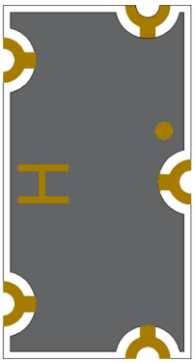
RESISTIVE POWER DIVIDER

FEATURES

- Low Profile Surface Mount Package
- Simplified Thermal Management
- Power Dividing
- Broadband Performance
- ROHS Compliant

APPLICATIONS

- Power Amplifiers
- Antenna Feeds
- Phased Array Radar
- Satellites
- Instrumentation



GENERAL DESCRIPTION

Smiths Interconnect offers high performance 2-, 3-, and 4-Way resistive power dividers ranging from DC to 50 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: RPD04-50EHF

SPECIFICATIONS

1.0 ELECTRICAL

Frequency:	DC – 40 GHz
Impedance:	50 Ω
Division:	4
Division Loss:	-12 dB Typical
Insertion Loss:	-0.75 dB for DC - 25 GHz, -1.5 dB for 25 – 40 GHz
Input VSWR:	1.30:1 max.
Output VSWR:	1.30:1 for DC – 25 GHz, 1.50:1 for 25 – 40 GHz
Amplitude Balance:	± 0.25 dB for DC - 25 GHz, ± 0.75 dB for 25 – 40 GHz
Phase Balance:	± 4° for DC - 25 GHz, ± 8° for 25 – 40 GHz
Power Handling:	1 Watt CW

2.0 ENVIRONMENTAL

Operating Temperature: -55ºC to +150ºC

3.0 MARKING

"H" size, Pin 1 dot 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.

Test Data Requirements

No Test Data Required

Data Retention – 12 months

RESISTIVE POWER DIVIDER

5.0 PACKAGING

Standard: Waffle Pack

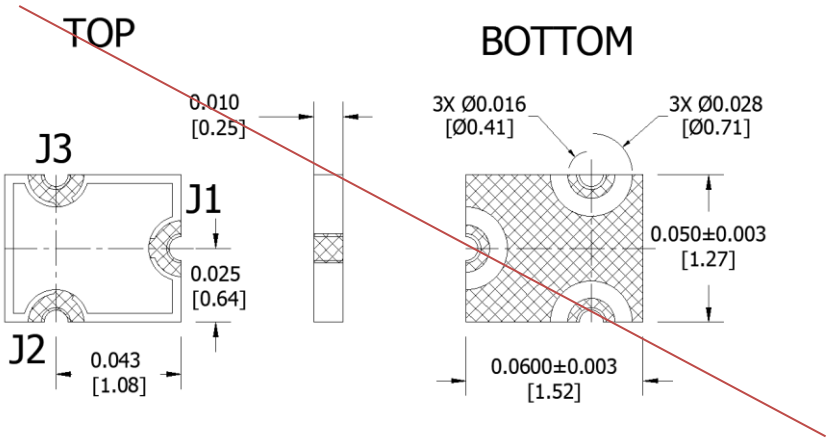
Note: Specifications are subject to change.

6.0 MECHANICAL

Substrate Material:	Alumina
Terminal Material:	Thin film gold
Resistive Material:	Thin film tantalum nitride

PIN CONFIGURATION

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



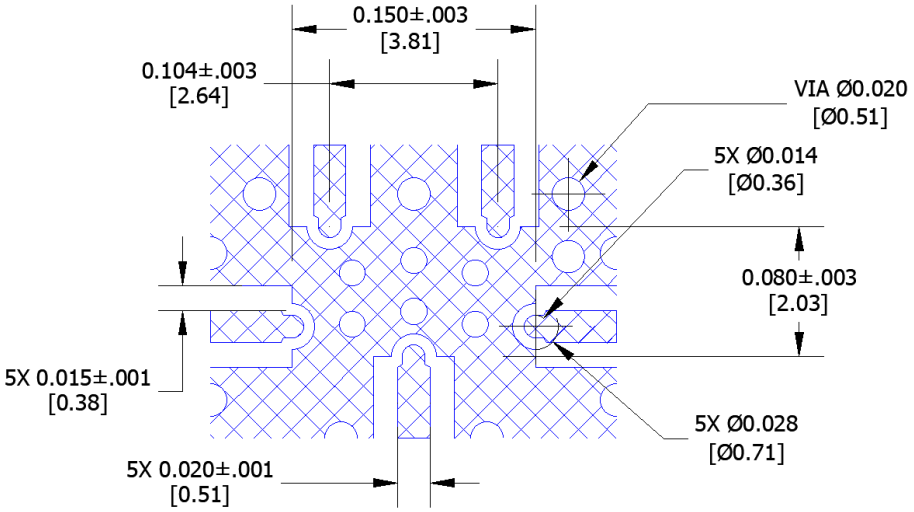
Unless Otherwise Specified: TOLERANCE: X.XX = ± 0.01 X.XXX = ± 0.001

Note: Specifications are subject to change.

Metric dimensions for Reference only.

RESISTIVE POWER DIVIDER

7.0 SUGGESTED LAND PATTERN



Metric dimensions for Reference only.
Transmission line dimensions based on a Rogers 6035HTC substrate, 0.010" thick,1/2oz, copper both sides.

RESISTIVE POWER DIVIDER

8.0 TYPICAL RF PERFORMANCE

