WILKINSON POWER DIVIDER

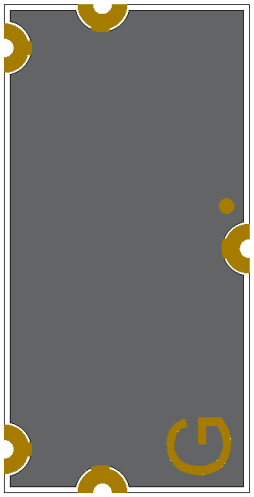
DATA SHEET **PART SERIES: WPD04-2535EGF**

FEATURES

- Low Profile Surface Mount Package
- Simplified Thermal Management
- Power Dividing
- Signal Combiner
- ROHS Compliant

APPLICATIONS

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



GENERAL DESCRIPTION

Smiths Interconnect offers high performance 2-, 3-, and 4-Way Wilkinson power dividers ranging from DC to 50 GHz in a low profile, surface mount package. These devices are designed for demanding applications where excellent RF response and power handling are required.

ORDERING INFORMATION

Part Identifier: WPD04-2535EGF

SPECIFICATIONS

1.0 ELECTRICAL

Frequency:	25 – 35 GHz
Impedance:	50 Ω
Division:	4
Division Loss:	-6 dB Typical
Insertion Loss:	-1.00 dB for 25 - 32 GHz, -1.50 dB for 32 - 35 GHz
Isolation:	-20.0 dB max.
Input VSWR:	1.30:1 max.
VSWR:	1.30:1 for 25 - 32 GHz, 1.50:1 for 32 - 35 GHz
Amplitude Balance:	± 0.5 dB for 25 - 32 GHz, ±0.75 dB for 32 - 35 GHz
Phase Balance:	± 5° max. for 25 – 35 GHz
Power Handling:	1 Watt CW

2.0 ENVIRONMENTAL

Operating Temperature: -55ºC to +150ºC

3.0 MARKING

"G" 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

5.0 PACKAGING

Standard: Waffle Pack

Note: Specifications are subject to change.

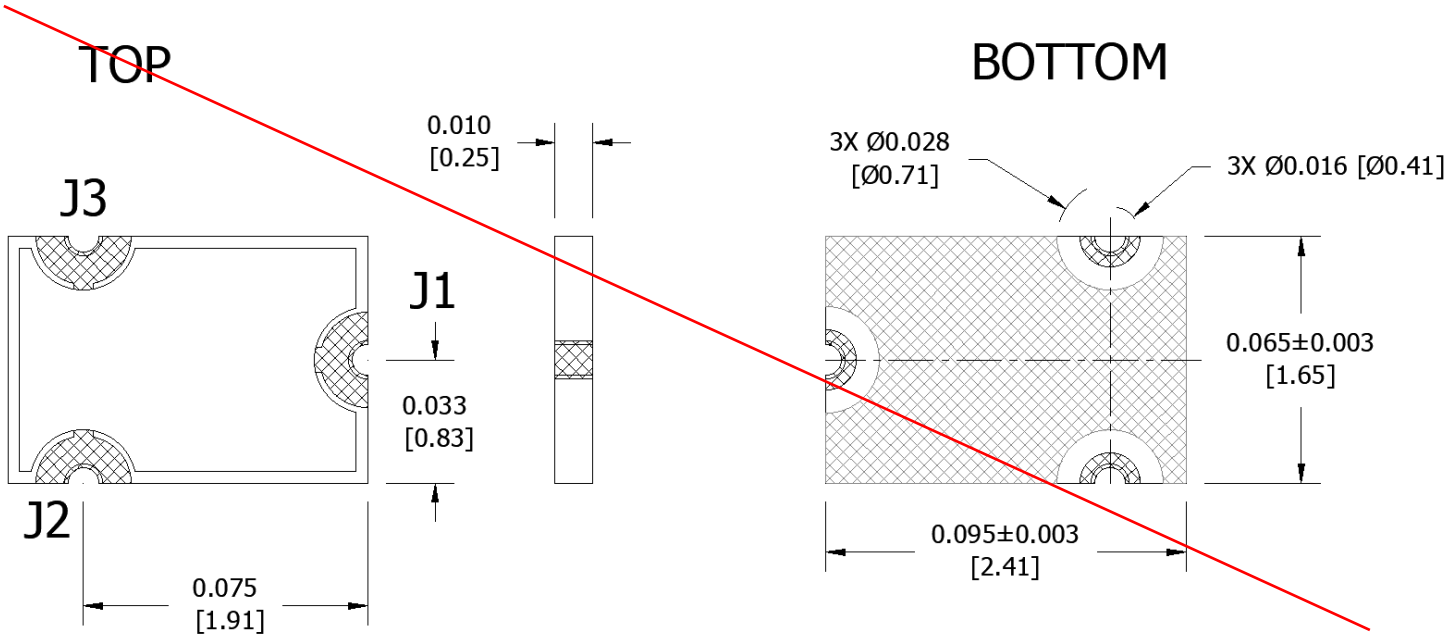
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6.0 MECHANICAL

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

PIN CONFIGURATION

Port	DESCRIPTION
J1	INPUT
J2	- 6 dB Output
J3	- 6 dB Output
J4	- 6 dB Output
J5	- 6 dB Output



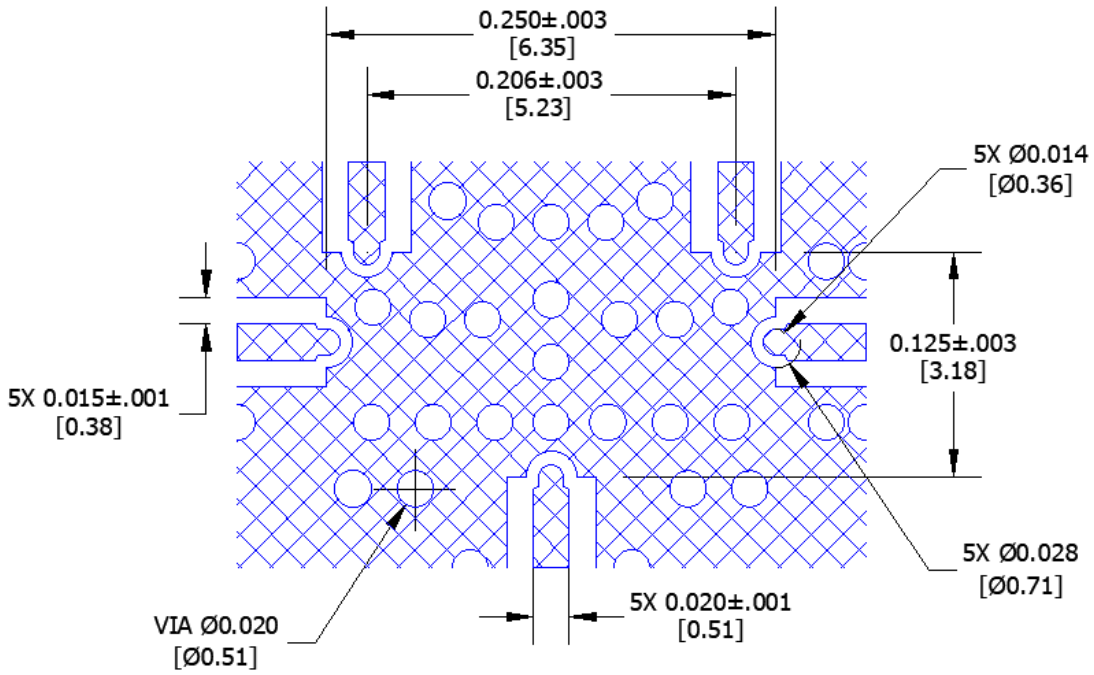
Unless Otherwise Specified: TOLERANCE: X.XX = ± 0.01 X.XXX = ± 0.001

Note: Specifications are subject to change.

Metric dimensions for Reference only.

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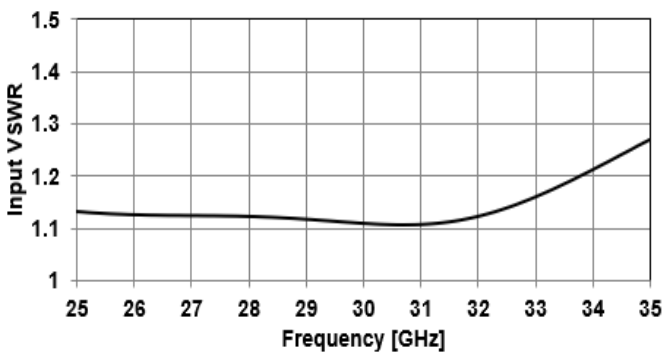
7.0 SUGGESTED LAND PATTERN

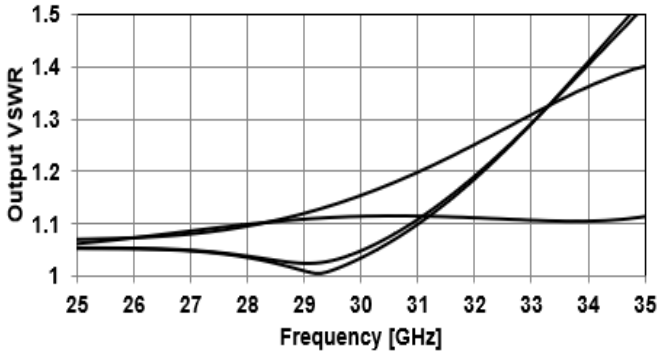


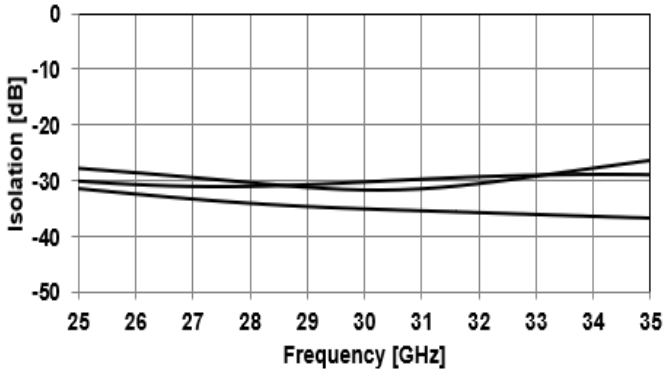
Metric dimensions for Reference only.
Transmission line dimensions based on a Rogers 6035HTC substrate, 0.010" thick, 1/2oz. copper both sides.

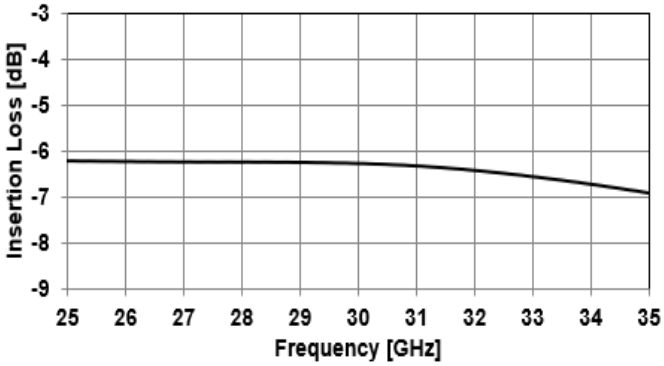
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8.0 TYPICAL RF PERFORMANCE









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