

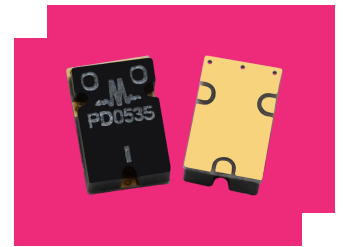
# PD-0535SM

## Wilkinson Power Divider

### DEVICE OVERVIEW

#### General Description

2-Way Wilkinson power dividers can be used for both in-phase power splitting and power combining applications. These power dividers feature the lowest insertion loss (ideally 3 dB splitting loss), excellent amplitude and phase balance, and high isolation across the entire operating band. High isolation can be critically important for power combining applications, such as when performing accurate intermodulation distortion (IMD) tests.



[Download s-parameters here](#)

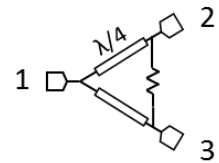
#### Features

- 5 to 35 GHz In-phase Power Splitting
- 1.5 dB Typical Insertion Loss
- 18 dB Typical Output to Output Isolation
- Outstanding Amplitude and Phase Balance
- Surface Mount Package

#### Applications

N/A

#### Functional Block Diagram



#### Part Ordering Options

Part Number	Description	Package	Green Status	Product Lifecycle	Export Classification
PD-0535SM	Wilkinson Power Divider	SM	Non-RoHS	Released	EAR99
EVAL-PD-0535SM	Evaluation Board, 5 - 35 GHz Wilkinson Power Divider	EVAL	Non-RoHS	Released	EAR99

## Table Of Contents

- **Device Overview**
  - General Description
  - Features
  - Applications
  - Functional Block Diagram
- **Revision History**
- **Specifications**
  - Absolute Maximum Ratings
  - Package Information
  - Electrical Specifications
  - Typical Performance
- **Mechanical Data**
  - Outline Drawing
- **Footprint Image**
- **Evaluation Board**

## Revision History

Revision Code	Revision Date	Comment
G0	2025-12-17	Power Handling Updated

## Specifications

### Absolute Maximum Ratings

Parameter	Maximum Rating	Unit
RF Power Handling as a Power Combiner	1	W
RF Power Handling as a Power Divider	10	W

### Package Information

Parameter	Details	Rating
Dimensions	-	3.81 x 6.10 mm
Moisture Sensitivity Level	-	MSL 3

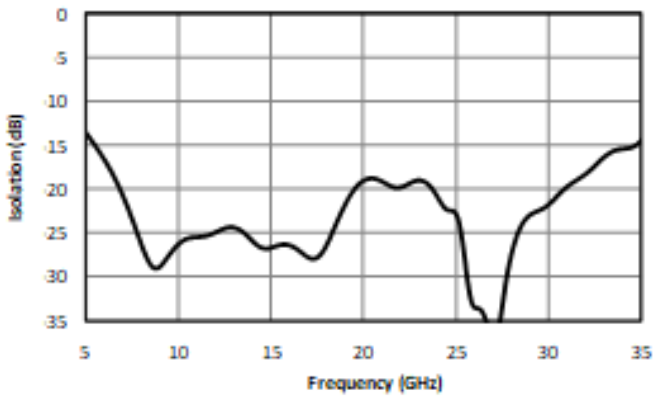
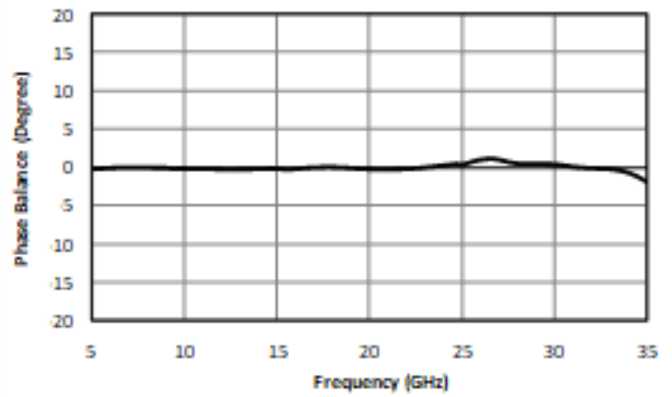
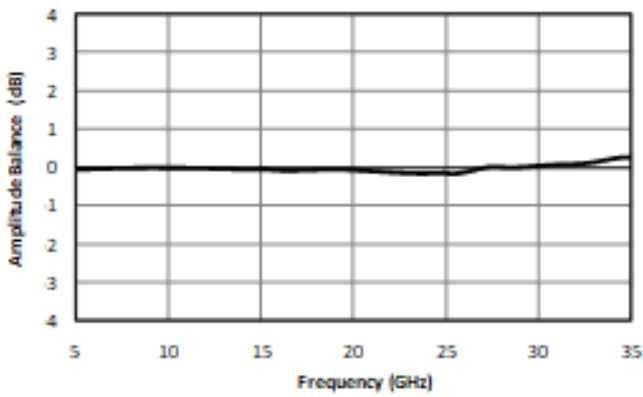
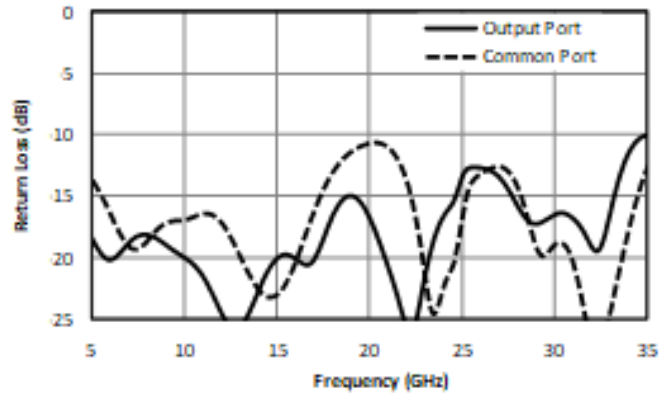
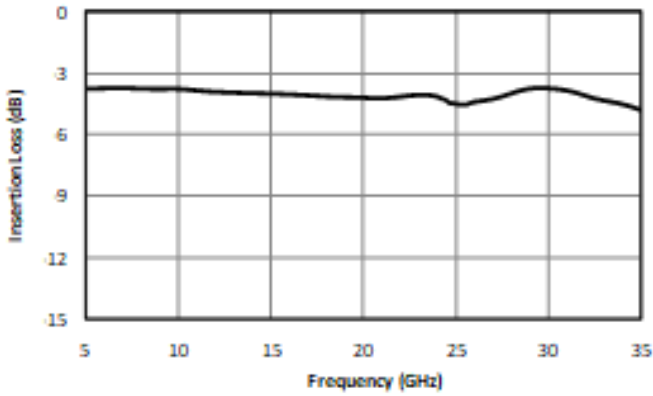
### Electrical Specifications

Specifications guaranteed from -55 to +100°C, measured in a 50Ω system.

Parameter	Test Conditions	Minimum Frequency (GHz)	Maximum Frequency (GHz)	Min	Typ	Max	Unit
Amplitude Balance		5	35	-	0.25	-	dB
Insertion Loss <sup>1</sup>	-	5	35	-	1.5	3	dB
Isolation <sup>2</sup>		5	35	-	18	-	dB
Nominal Phase Shift		5	35	-	0	-	°
Nominal Power Splitting (dB)	-	5	35	-	3	-	dB
Phase Balance		5	35	-	3	-	°
VSWR		5	35	-	1.5	-	

<sup>[1][2]</sup> Excess Insertion Loss = (Input Port to Common Port Insertion Loss) - 3dB

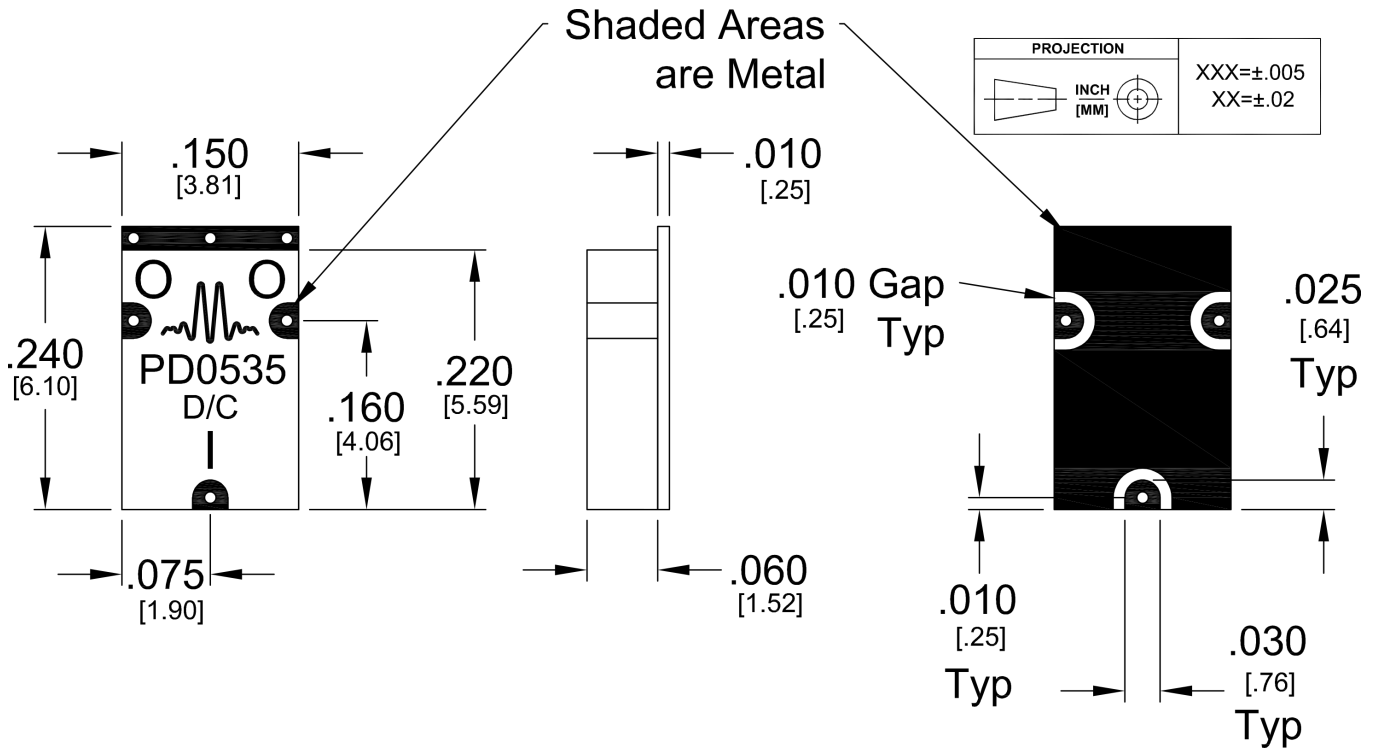
**Typical Performance**



**Mechanical Data**

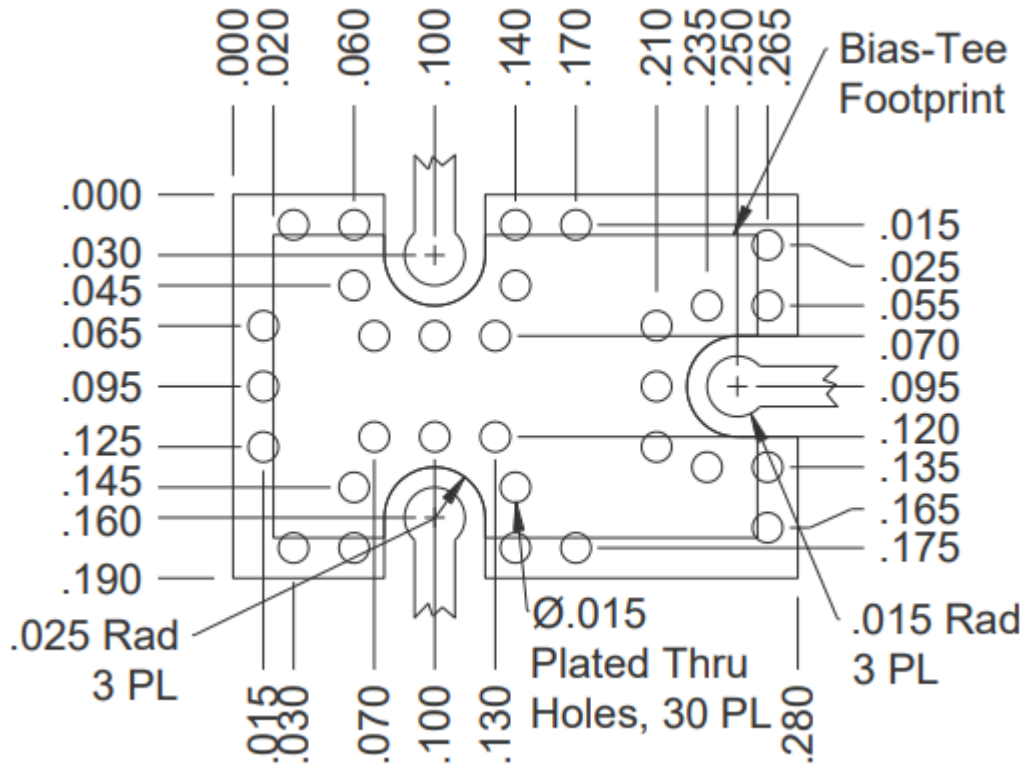
**Outline Drawing**

Download : [Outline 2D Drawing](#) | [Outline 3D Drawing](#) | [Outline 3D STP](#)



Footprint Image

Download: [Footprint Drawing](#)



**DISCLAIMER**

MARKI MICROWAVE, LLC., ("MARKI") PROVIDES TECHNICAL SPECIFICATIONS AND DATA (INCLUDING DATASHEETS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, AND OTHER INFORMATION AND RESOURCES "AS IS" AND WITH ALL FAULTS. MARKI DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT.

These resources are intended for developers skilled in the art designing with Marki products. You are solely responsible for (1) selecting the appropriate products for your application, (2) designing, validating, and testing your application, and (3) ensuring your application meets applicable standards and other requirements. Marki makes no guarantee regarding the suitability of its products for any particular purpose, nor does Marki assume any liability whatsoever arising out of your use or application of any Marki product.

Marki grants you permission to use these resources only for development of an application that uses Marki products. Other reproduction or use of these resources is strictly prohibited. No license is granted to any other Marki intellectual property or to any third-party intellectual property. Marki reserves the right to make changes to the product(s) or information contained herein without notice.

MARKI MICROWAVE and T3 MIXER are trademarks or registered trademarks of Marki Microwave, LLC. All other trademarks used are the property of their respective owners.

© 2025, Marki Microwave, LLC