

# PD3-0126

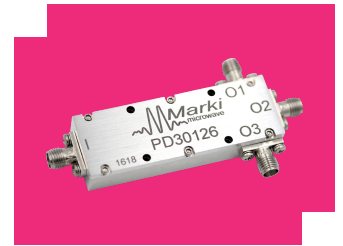
## 3-Way Wilkinson Power Divider

### DEVICE OVERVIEW

#### General Description

3-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 4.77 dB 3-way splitting loss), excellent amplitude and phase balance, and high isolation across the entire operating band.

[Download s-parameters here](#)



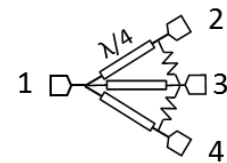
#### Features

- 1.5 to 26.5 GHz In-phase Power Splitting
- High Output to Output Isolation
- Closely Tracking Phase and Amplitude Balance

#### Applications

N/A

#### Functional Block Diagram



#### Part Ordering Options

Part Number	Description	Connectors	Green Status	Product Lifecycle	Export Classification
PD3-0126	3-Way Wilkinson Power Divider	<u>Standard</u>	REACH RoHS	Released	EAR99

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## Revision History

Revision Code	Revision Date	Comment
-	2018-11-27	Initial Date Release
A	2025-12-17	Power Handling Updated

**Port Configuration and Functions**

**Port Functions**

Port	Function	Connector Type	Description	DC Equivalent Circuit
In	Divider Common Input	SMAF	Wilkinson Divider Common Input	-
Out 1	Divider Output 1	SMAF	RF divided output 1 of the Wilkinson divider.	-
Out 2	Divider Output 2	SMAF	RF divided output 2 of the Wilkinson divider.	-
Out 3	Divider Output 3	SMAF	RF divided output 3 of the Wilkinson divider.	-

**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
Weight	-	41.6g
Dimensions	-	60.45 x 20.32 mm

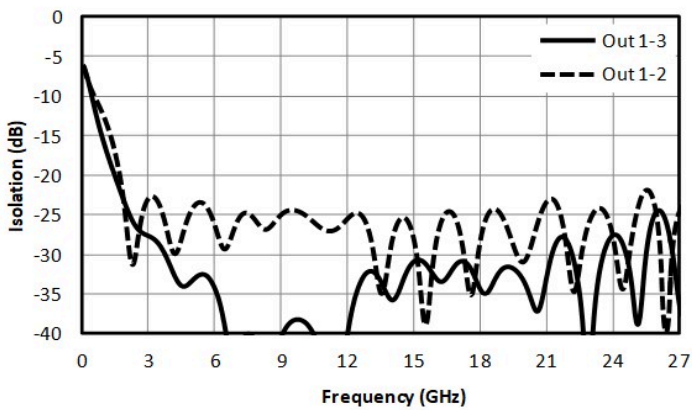
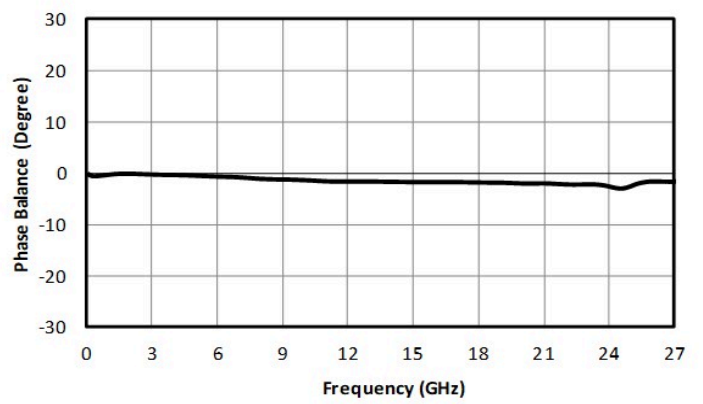
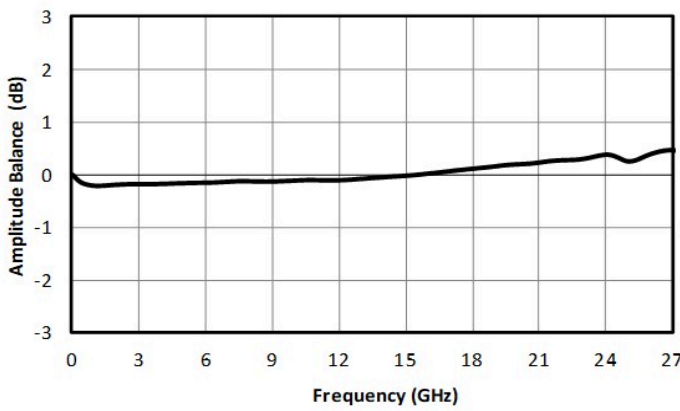
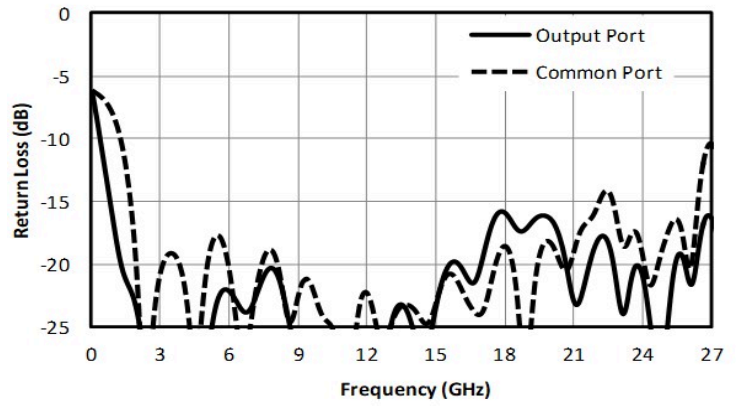
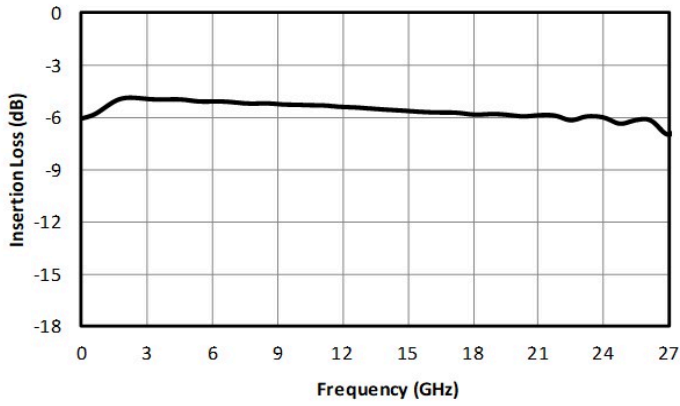
**Electrical Specifications**

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	-	1.5	26.5	-	0.3	0.9	dB
Excess Insertion Loss <sup>1</sup>	-	1.5	26.5	-	1.5	3	dB
Isolation	-	1.5	2	12	-	-	dB
Isolation	-	2	26.5	15	25	-	dB
Nominal Phase Shift	-	1.5	26.5	-	0	-	°
Nominal Power Splitting	-	1.5	26.5	-	4.77	-	dB
Phase Balance	-	1.5	26.5	-	4	12	°
VSWR	-	2	15	-	1.35	1.55	
VSWR	-	1.5	2	-	1.55	-	
VSWR	-	15	26.5	-	1.55	-	

<sup>[1]</sup> Excess Insertion Loss = (Input Port to Common Port Insertion Loss) - 6dB

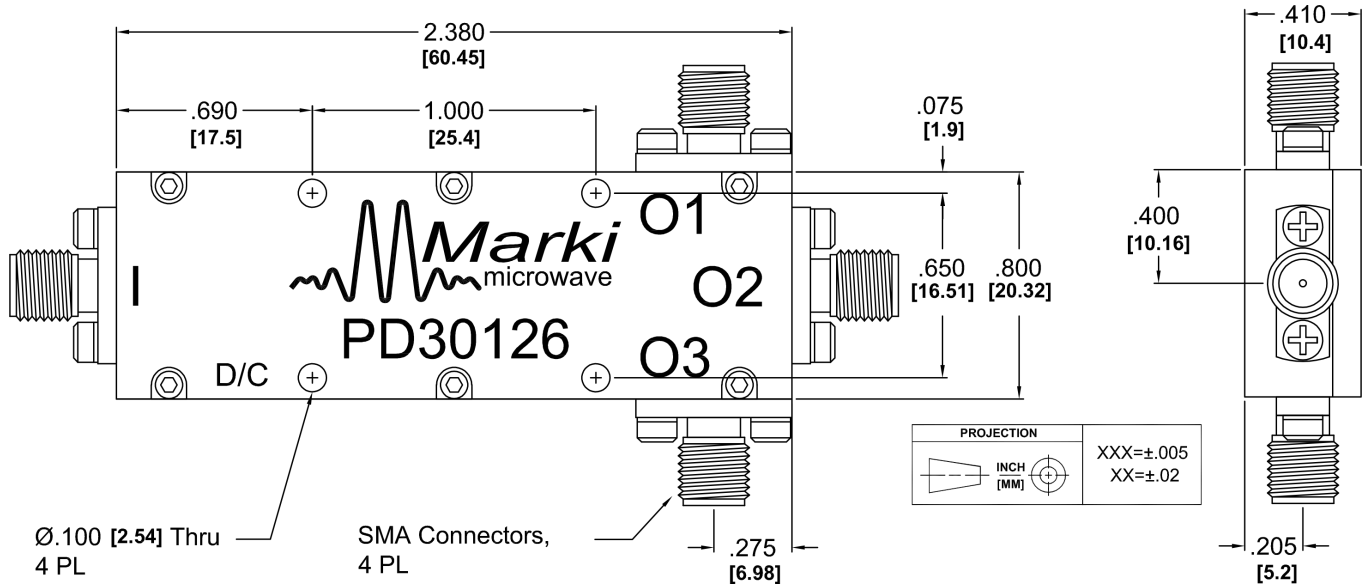
**Typical Performance Plots**



**Mechanical Data**

**Outline Drawing**

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



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