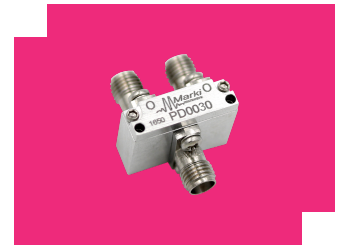


PD-0030 Resistive Power Divider

DEVICE OVERVIEW

General Description

The PD-0030 is a resistive 2-way power divider that features broadband operation from DC to 30 GHz. Resistive power dividers offer 6 dB nominal insertion loss and excellent amplitude and phase balance. Resistive power dividers are not recommended for use as a power combiner due to the lack of isolation.



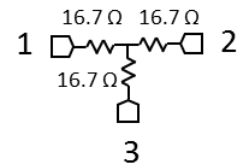
Features

- DC to 30 GHz In-phase Power Splitting
- 0.5 dB Typical Insertion Loss
- Outstanding Phase and Amplitude Balance

Applications

N/A

Functional Block Diagram



Part Ordering Options

Part Number	Description	Connectors	Green Status	Product Lifecycle	Export Classification
PD-0030	Resistive Power Divider	<u>Standard</u>	REACH RoHS	Released	EAR99

Table Of Contents

- **Device Overview**
 - General Description
 - Features
 - Applications
 - Functional Block Diagram
- **Port Configuration and Functions**
 - Port Functions
- **Revision History**
- **Specifications**
 - Absolute Maximum Ratings
 - Package Information
 - Electrical Specifications
 - Typical Performance Plots
- **Mechanical Data**
 - Outline Drawing

Revision History

Revision Code	Revision Date	Comment
-	2009-11-01	Datasheet Initial Release
A	2019-09-01	Updated Circuit

Port Configuration and Functions

Port Functions

Port	Function	Connector Type	Description	DC Equivalent Circuit
Port 1	Out 1	2.92F	RF output 1 of the combiner	-
Port 2	Out 2	2.92F	RF output 2 of the combiner	-
Port 3	IN/OUT	2.92F	RF input/output of the combiner	-

Specifications

Absolute Maximum Ratings

Parameter	Maximum Rating	Unit
RF Power Handling	0.5	W
Minimum Operating Temperature	-55	°C
Maximum Operating Temperature	100	°C
Minimum Storage Temperature	-65	°C
Maximum Storage Temperature	150	°C

Package Information

Parameter	Details	Rating
Weight	-	10.5g
Dimensions	-	20.32 x 6.06mm

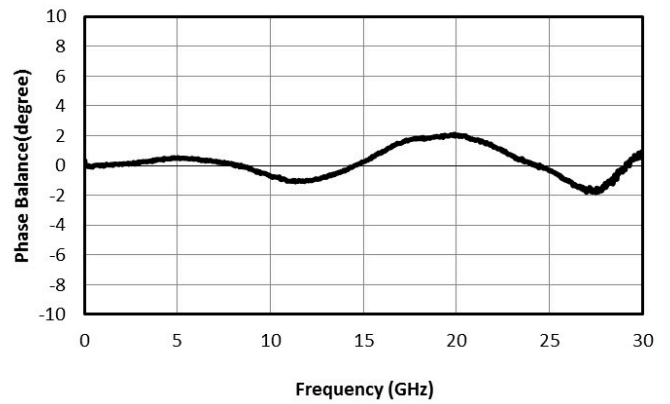
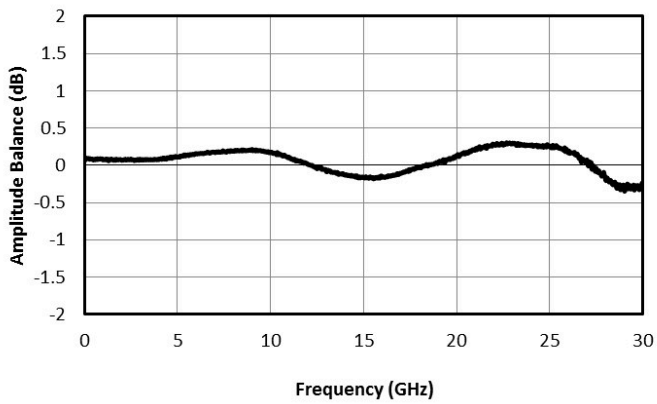
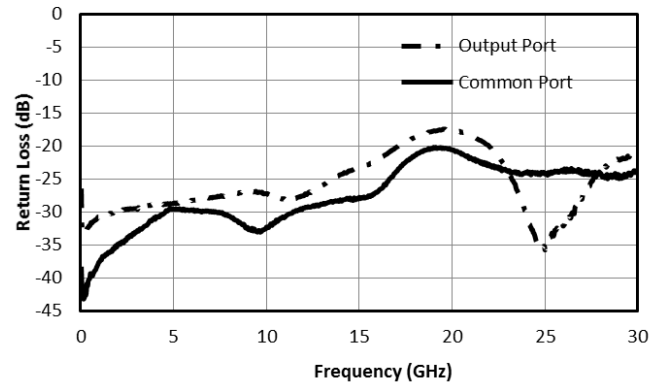
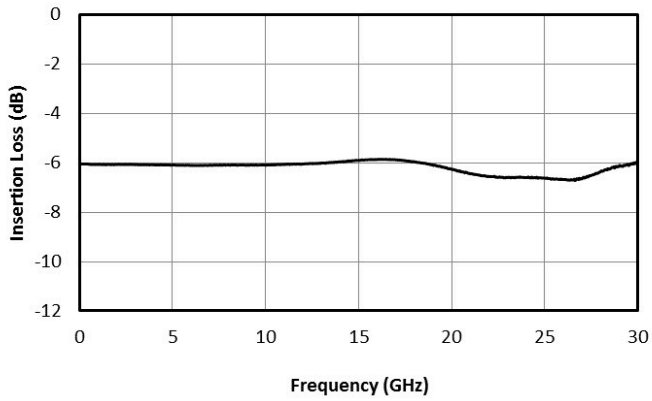
Electrical Specifications

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	-	0	30	-	0.25	0.75	dB
Excess Insertion Loss ¹	-	0	30	-	0.5	2	dB
Nominal Phase Shift	-	0	30	-	0	-	°
Nominal Power Splitting	-	0	30	-	6	-	dB
Phase Balance	-	0	30	-	2	8	°
VSWR	-	0	30	-	1.2	-	

^[1] Excess Insertion Loss = (Input Port to Common Port Insertion Loss) - 6dB

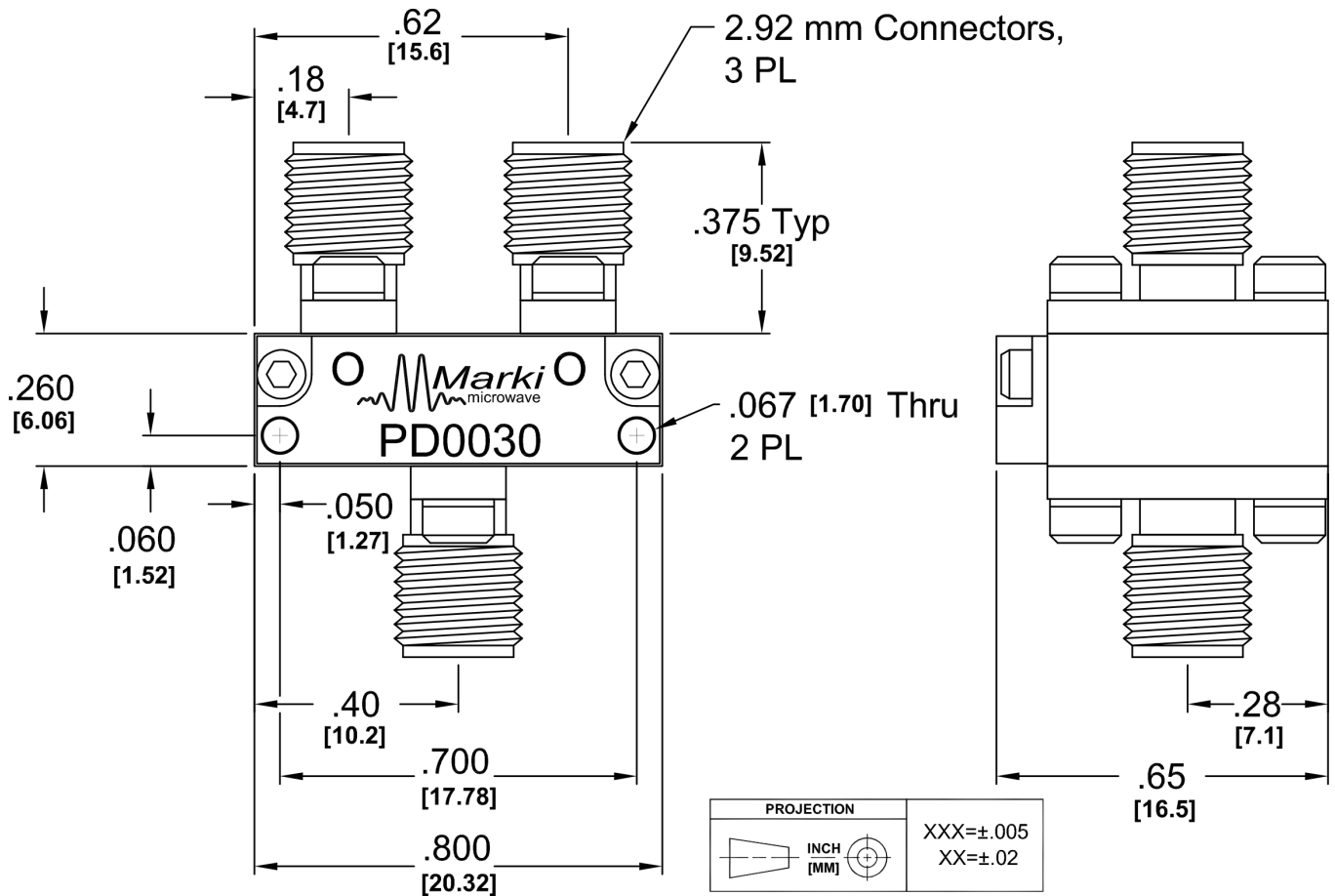
Typical Performance Plots



Mechanical Data

Outline Drawing

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



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