

## PD-0020

### Resistive Power Divider

#### DEVICE OVERVIEW

##### General Description

The PD-0020 is a resistive 2-way power divider that features broadband operation from DC to 20 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.



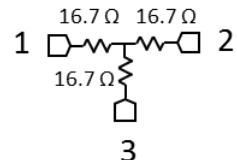
##### Features

- DC to 20 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-0020	Resistive Power Divider	<u>Standard</u>	REACH RoHS	Released	EAR99

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## Revision History

Revision Code	Revision Date	Comment
-	2020-05-30	Datasheet Initial Release

## Port Configuration and Functions

### Port Functions

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

## Specifications

### Package Information

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

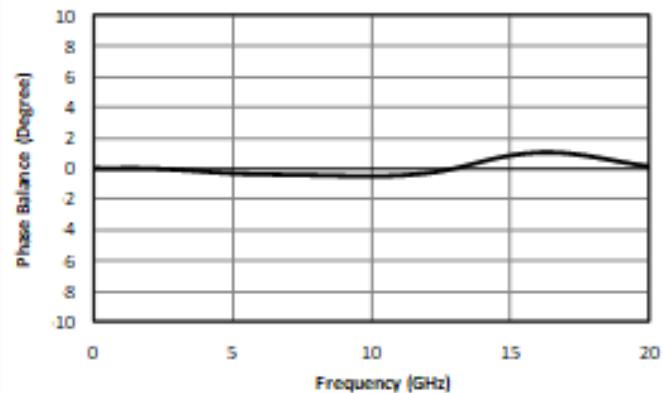
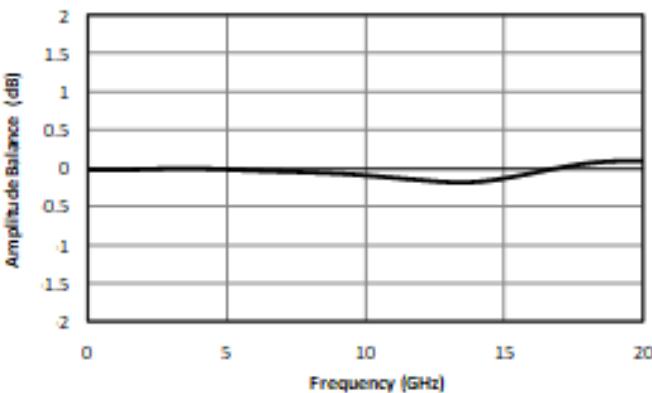
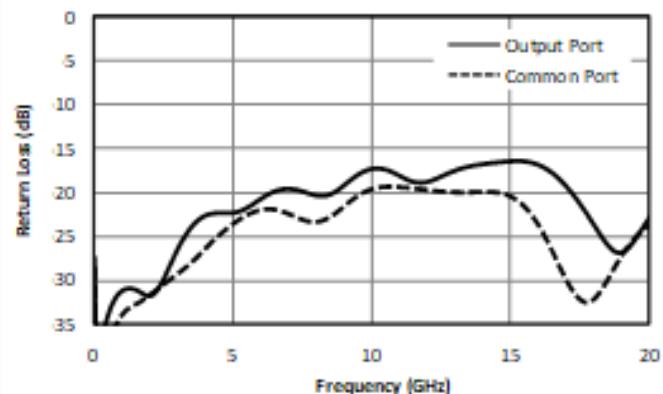
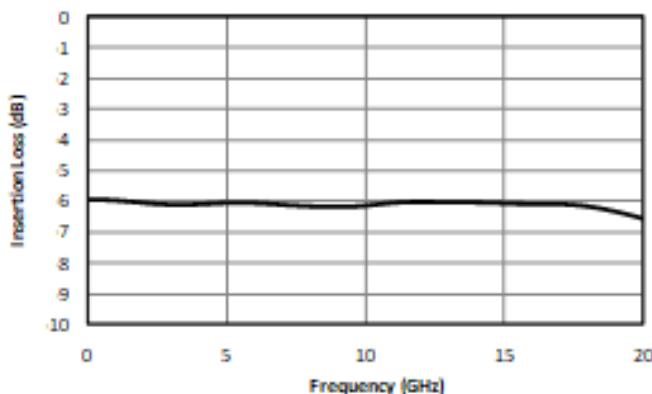
## Electrical Specifications

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	DC-20GHz	-	-	-	2	0.75	dB
Excess Insertion Loss <sup>1</sup>	DC-20GHz	-	-	-	0.5	1.5	dB
Input Power	DC-20GHz	-	-	-	-	1	W
Nominal Phase Shift	DC-20GHz	-	-	-	0	-	°
Nominal Power Splitting	DC-20GHz	-	-	-	6	-	dB
Phase Balance	DC-20GHz	-	-	-	2	10	°
VSWR	DC-20GHz	-	-	-	1.25	1.65	

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

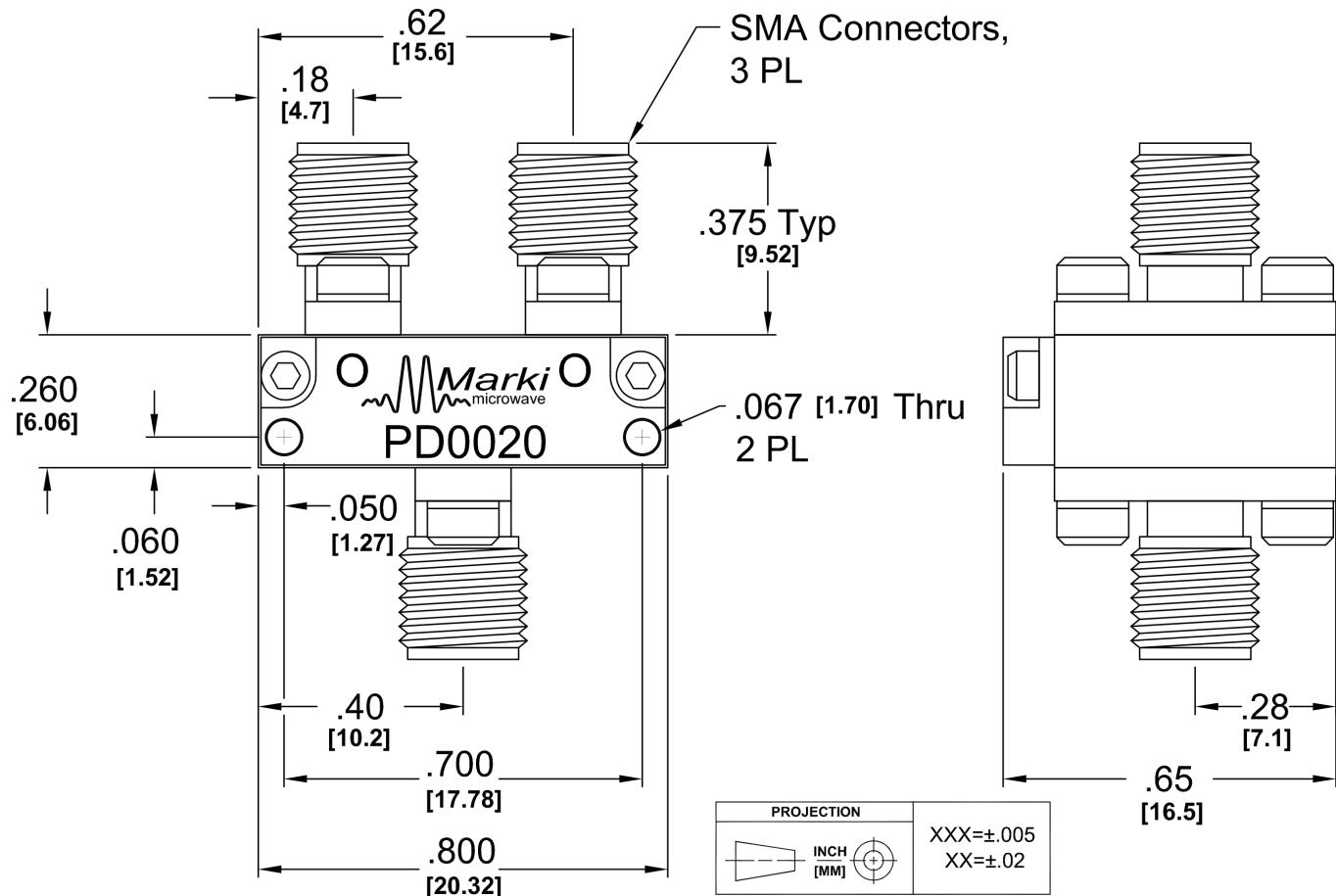
## Typical Performance Plots



## Mechanical Data

### Outline Drawing

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



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