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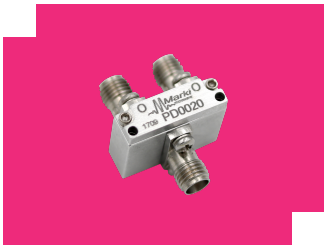
PD-0020

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.



Download s-parameters here

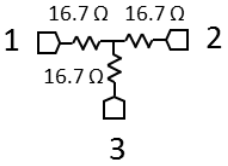
Features

- 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	Package	Packing Size	Green Status	Product Lifecycle	Export Classification
PD-0020	Resistive Power Divider	-	-	RoHS	Released	EAR99

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Table Of Contents

Revision History

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

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Port Configuration and Functions

Port Functions

Port	Function	Description	Equivalent Circuit for Package
Port 1	Out 1	RF output 1 of the combiner	-
Port 2	Out 2	RF output 2 of the combiner	-
Port 3	IN/OUT	RF input/output of the combiner	-

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Specifications

Package Information

Parameter	Details	Rating
Weight	-	10.5g
Dimensions	-	20.32x6.06mm

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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
Nominal Phase Shift	DC-20GHz	-	-	-	0	-	°
Phase Balance	DC-20GHz	-	-	-	2	10	°
Insertion Loss [1]	DC-20GHz	-	-	-	0.5	1.5	dB
VSWR	DC-20GHz	-	-	-	1.25	1.65	-
Amplitude Balance	DC-20GHz	-	-	-	2	0.75	dB
Input Power	DC-20GHz	-	-	-	-	1	W
Nominal Power Splitting (dB)	DC-20GHz	-	-	-	6	-	dB
Weight	-	-	-	-	10.5	-	g

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

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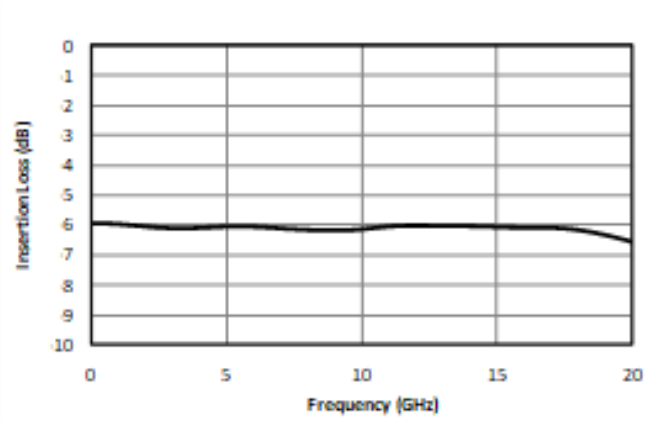
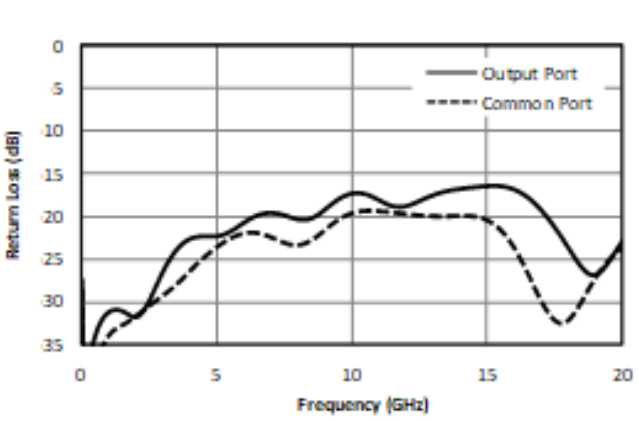
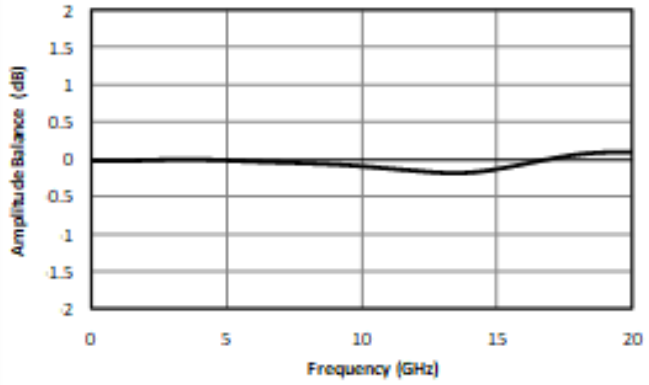
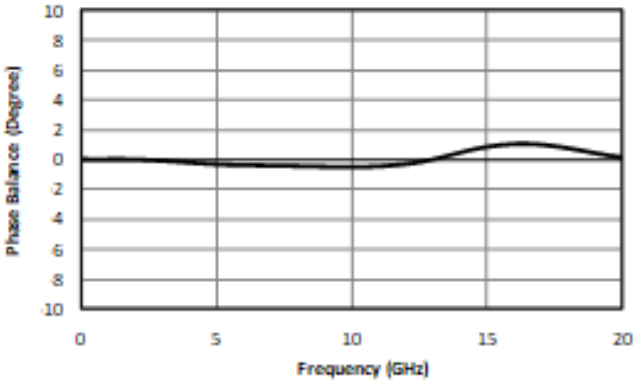
Typical Performance Plots









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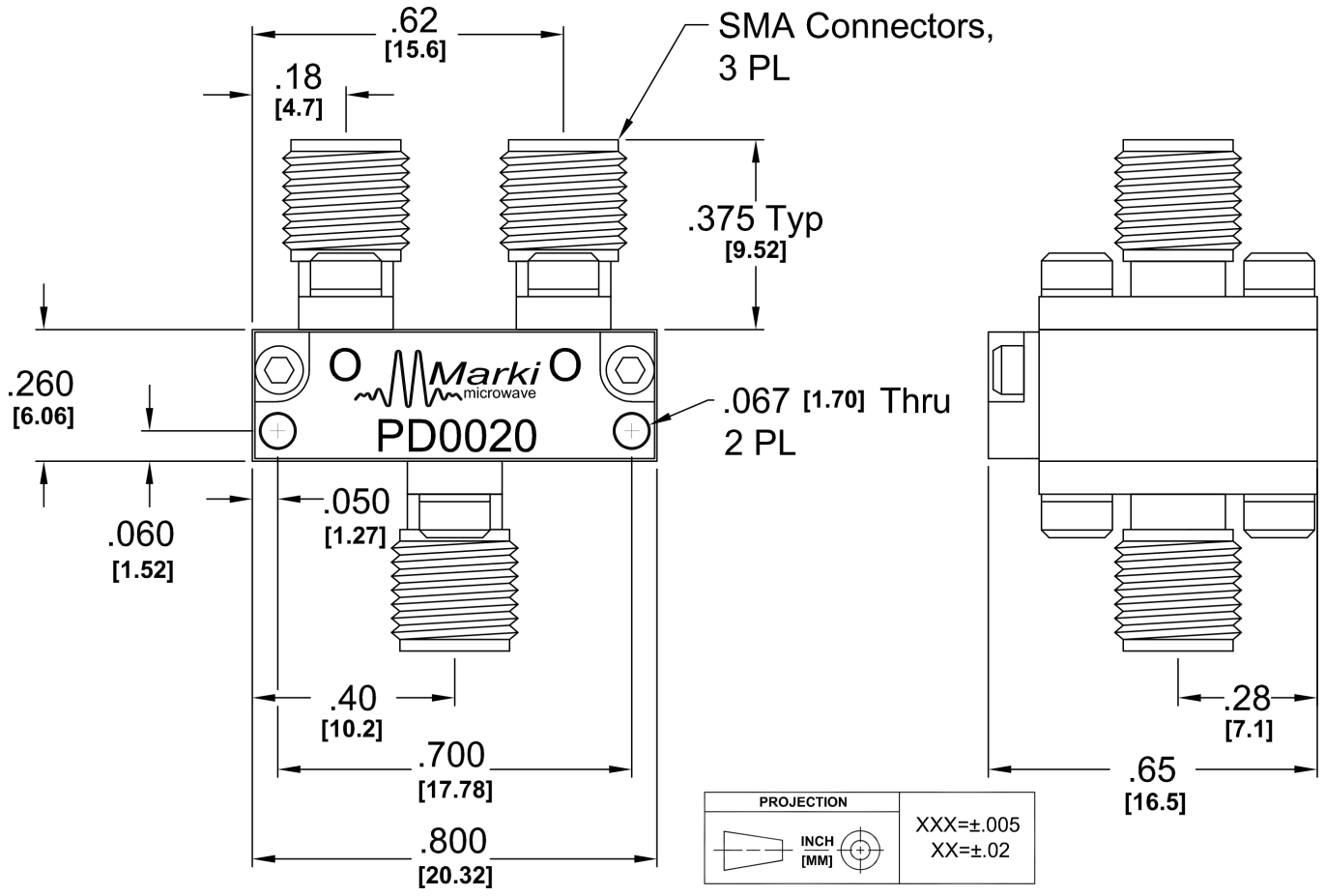
Mechanical Data

Outline Drawing



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