

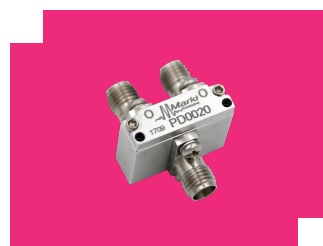
PD-0020

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.



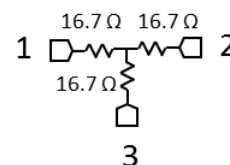
Features

- 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

Table Of Contents

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

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

Absolute Maximum Ratings

Parameter	Maximum Rating	Unit
RF Power Handling	1	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

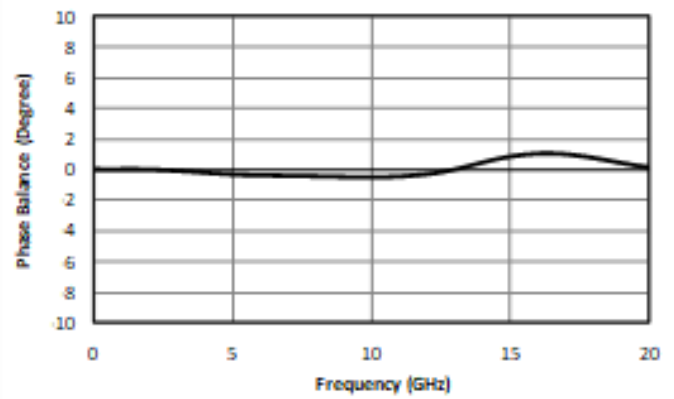
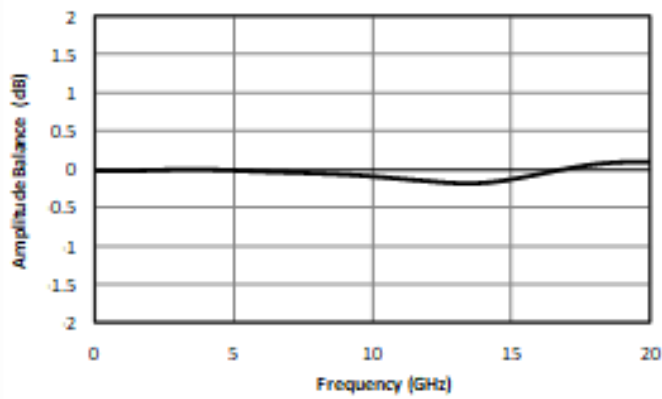
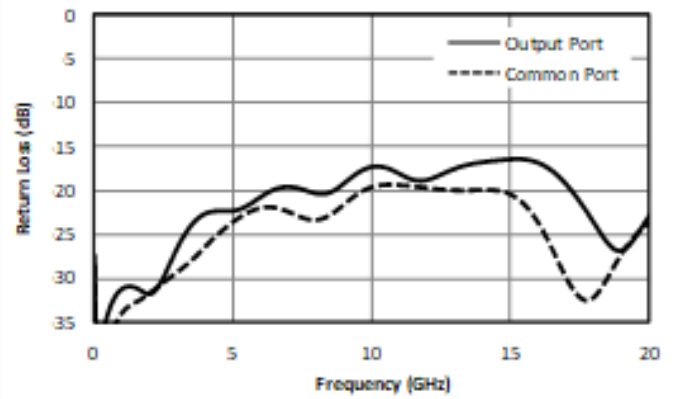
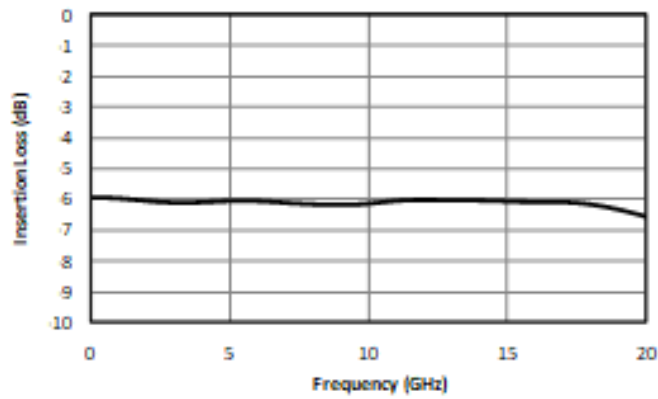
Electrical Specifications

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	20	-	2	0.75	dB
Excess Insertion Loss ¹	-	0	20	-	0.5	1.5	dB
Nominal Phase Shift	-	0	20	-	0	-	°
Nominal Power Splitting	-	0	20	-	6	-	dB
Phase Balance	-	0	20	-	2	10	°
VSWR	-	0	20	-	1.25	1.65	-

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

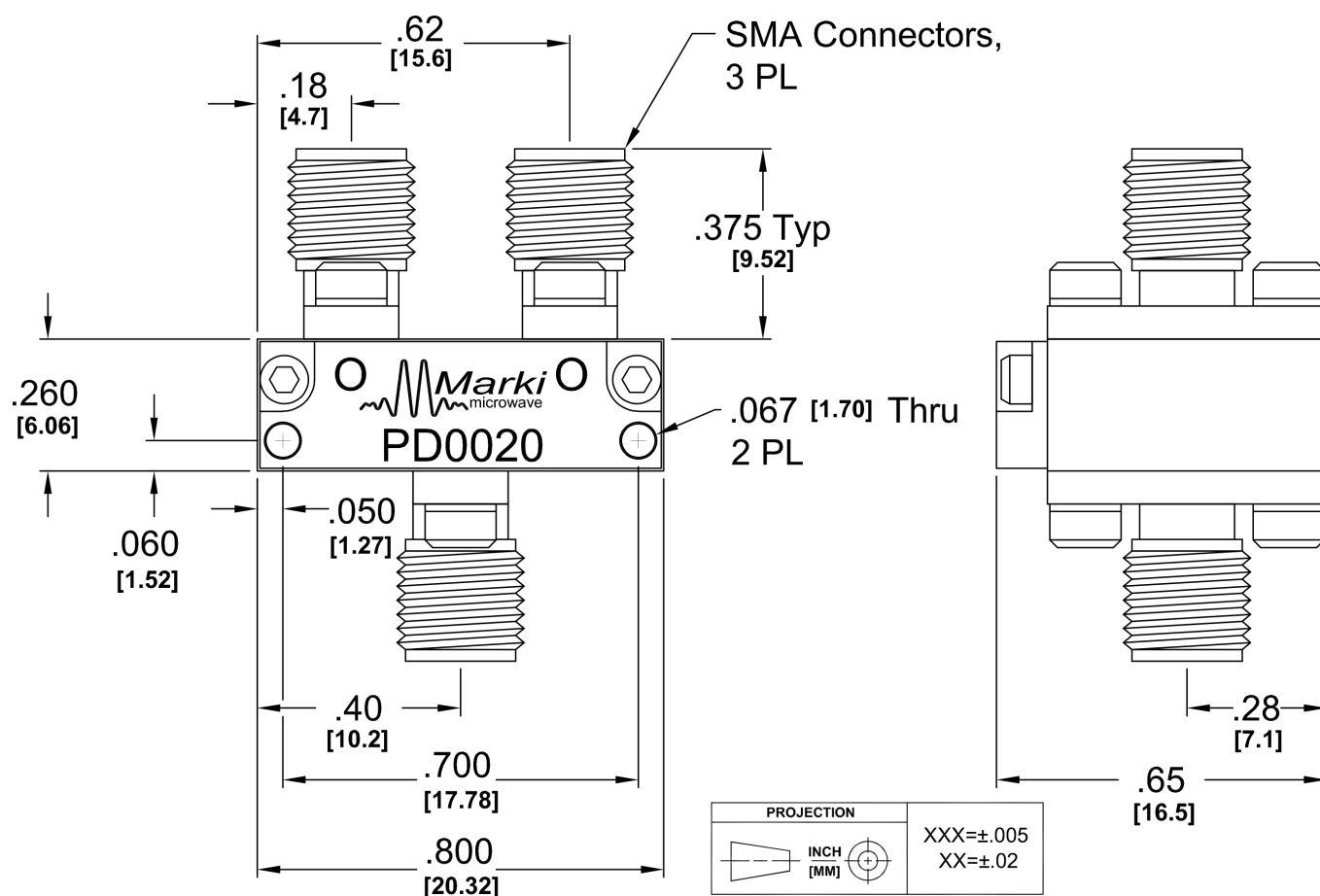
Typical Performance Plots



Mechanical Data

Outline Drawing

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



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Signal Conditioning](#) category:

Click to view products by [Marki Microwave](#) manufacturer:

Other Similar products are found below :

[PD0409J5050S2HF](#) [AFS14A35-1591.50-T3](#) [AFS20A20-1227.60-T3](#) [JP510S](#) [LFB322G45SN1A504](#) [SF2159E](#) [MAPDCC0005](#)
[BD0810N50100AHF](#) [DC0710J5005AHF](#) [DC2327J5005AHF](#) [X3C19F1-20S](#) [XC3500P-20S](#) [CDBLB455KCAX39-B0](#) [PD0922J5050D2HF](#)
[1E1305-3](#) [1F1304-3S](#) [BD1222J50200AHF](#) [BD1722J50100AHF](#) [BD0810J50150AHF](#) [BD1722J50200AHF](#) [TP-101-PIN](#) [T-1000-N](#) [XC0900P-](#)
[10S](#) [XC0900B-30S](#) [11305-10](#) [5962-9091202MXA](#) [X3C06A4-03S](#) [DSS-333-PIN](#) [PD2425J5050S2HF](#) [B39242B4360P810](#)
[B39781B8005P810](#) [B39881B8013P810](#) [B39771B8035P810](#) [B39741B8012P810](#) [B39212B8033P810](#) [B39162B8636P810](#) [SF2225E](#) [SF2275E](#)
[SF2395E](#) [SF2188D](#) [LFB182G45BG7D948](#) [SF2201E](#) [DC1722J5005AHF](#) [B39272B8818P810](#) [SF2253E](#) [SF2202E](#) [SF2182D](#) [SF2211E](#)
[SF2240E](#) [SF2307D](#)