

2-way Power Divider

Design	Wilkinson
Type	Stripline
Number of Output Ports	2
P / N	PD100400-292_B
Version	B



10 to 40 GHz 2-way Power Dividers Technical Data Sheet

PD100400-292_B

Features

- Design : Wilkinson
 - Stainless Steel Connectors
 - Low Insertion Loss 1.3dB
- Number of Output Ports : 2
 - RoHS and REACH Compliant
 - High Isolation 16dB

Electrical Specifications (Design : Wilkinson)

Description	Minimum	Typical	Maximum	Units	Condition
Freq. Range	10		40	GHz	
Nominal Splitter Loss		3.0		dB	
Insertion Loss			1.3	dB	Excluding Nominal Splitter Loss 3.0dB
Input VSWR			1.7		
Output VSWR			1.6		
Amplitude Balance			0.4	dB	#1
Phase Balance			5	deg	#2
Isolation	16			dB	
Forward Power			20	W	CW
Reverse Power			1	W	CW
Peak Power			0.2	KW	P-P
Impedance		50		Ohms	
Operating Temp.	-45		+85	°C	Relative Humidity 5 to 95%
Additional Conditions					

: Electronic Specification Note : Values at 25deg , sea level. Test indicators will deteriorate at high and low temperature ;

#1 : All output ports /power combiner in-amplitude (0dB difference) ;

#2 : All output ports /power combiner in-phase (0° difference) ;

Mechanical Specifications

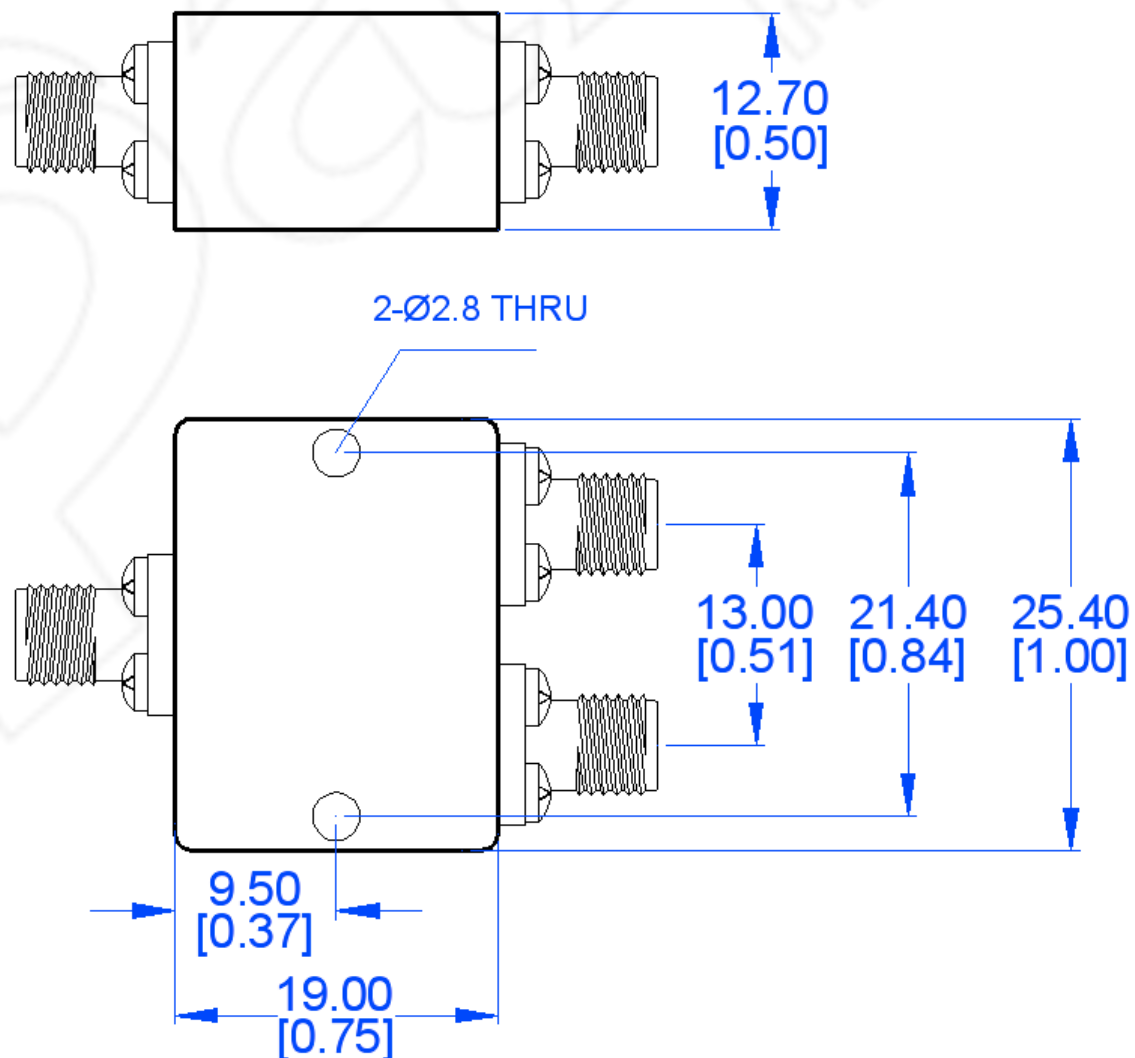
Description	Specification	Note
Cavity Material	Aluminum	
PCB	ROGERS , ARLON or TACONIC	
Dimension L*W*H	25.4*19*12.7 mm	
Input Connector	2.92mm-Female	Stainless Steel
Output Connectors	2.92mm-Female	Stainless Steel
Weight	60 g	
Finishing	Paint Black	
Environment	✗	Indoor
RoHS and REACH Compliant	✓	

Outline Drawing

Dimensions are in mm [Inches]

Tolerances : Outline drawing: ± 0.2 [0.008],

Hole: ± 0.2 [0.008]



Test Curve

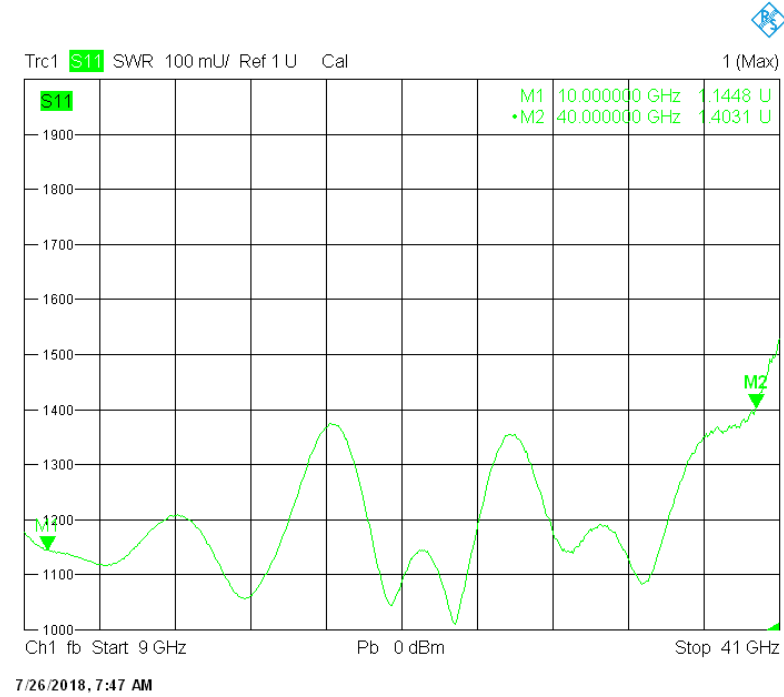
Test Freq. Range10 to 40 GHz

Test Temperature+25 °C

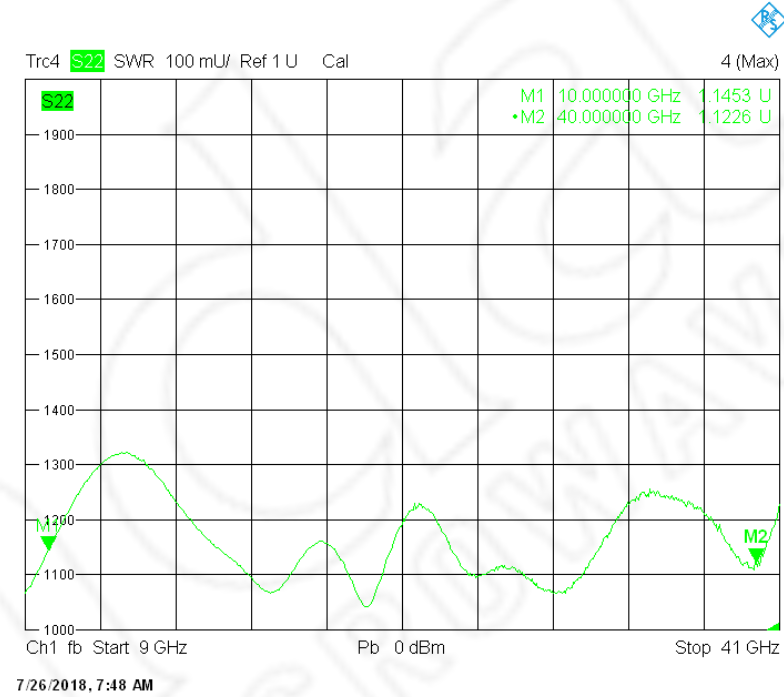
P / NPD100400-292_B

2-way Power Divider

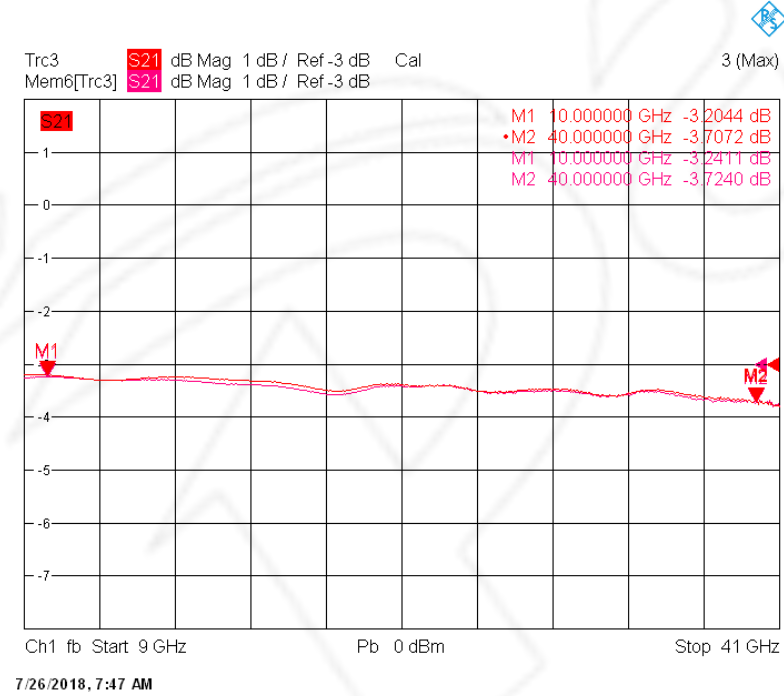
Input Port VSWR



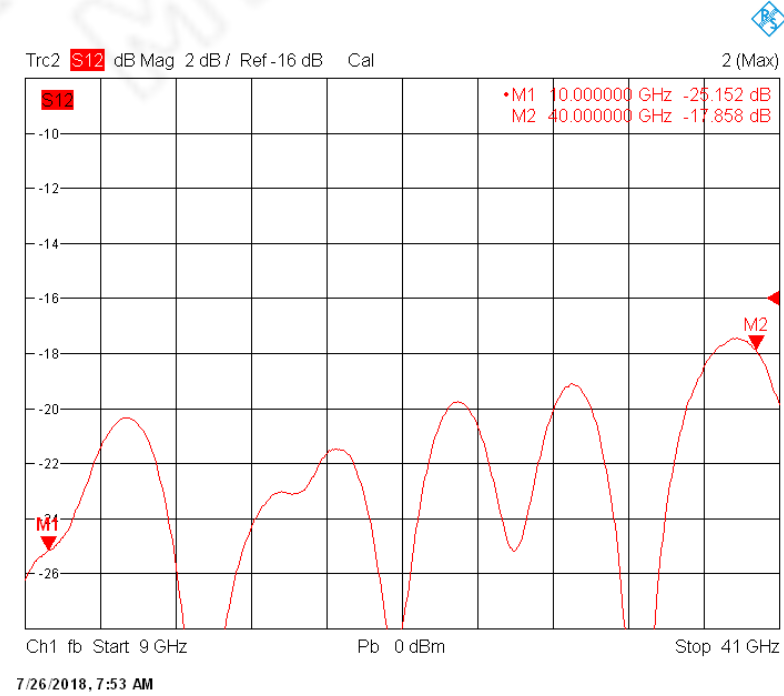
Output Port VSWR



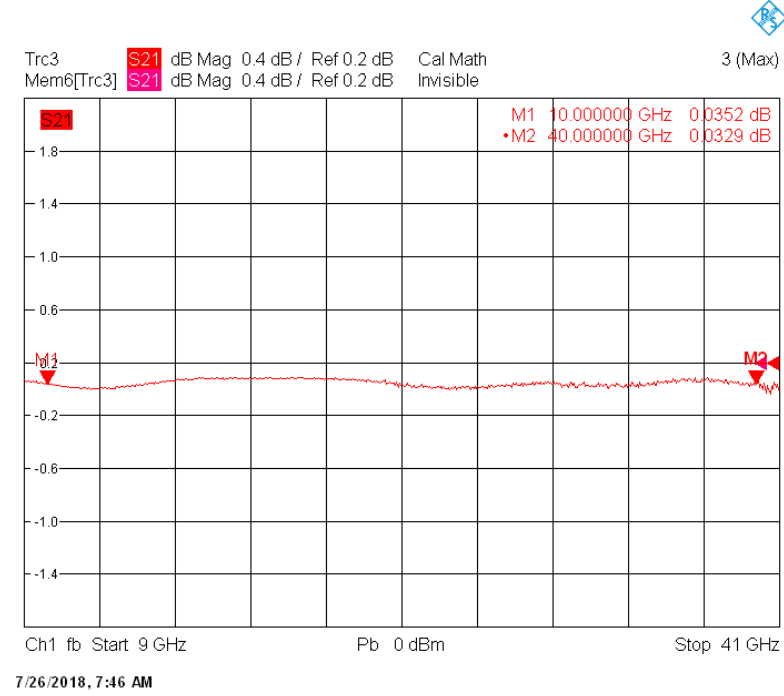
Output Port Insertion Loss



Output Port Isolation



Amplitude Balance



Phase Balance

