

10dB Directional Coupler

Type	Stripline
Coupling Balance	10±1dB
Freq. Range	1 to 40 GHz
P / N	DC010400-1092_B
VER	B



1 to 40 GHz 10dB Directional Coupler Technical Data Sheet

DC010400-1092_B

Features

- Stainless Steel Connectors
 - Low Insertion Loss 2.5dB
 - Low Coupling Balance ±1dB
- Nominal Coupling 10dB
 - RoHS and REACH Compliant
 - High Directivity 10dB

Electrical Specifications

Description	Minimun	Typical	Maximum	Units	Condition
Freq. Range	1		40	GHz	
Nominal Coupling Loss		0.46		dB	
Insertion Loss			2.5	dB	Excluding Nominal Coupling Loss
Main Line VSWR			1.7		
Coupling VSWR			1.7		
Nominal Coupling		10		dB	
Coupling Balance			±1	dB	
Freq. Flatness			2.0	dB	
Directivity	10			dB	
Average Power			20	W	CW
Peak Power			0.5	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 ;

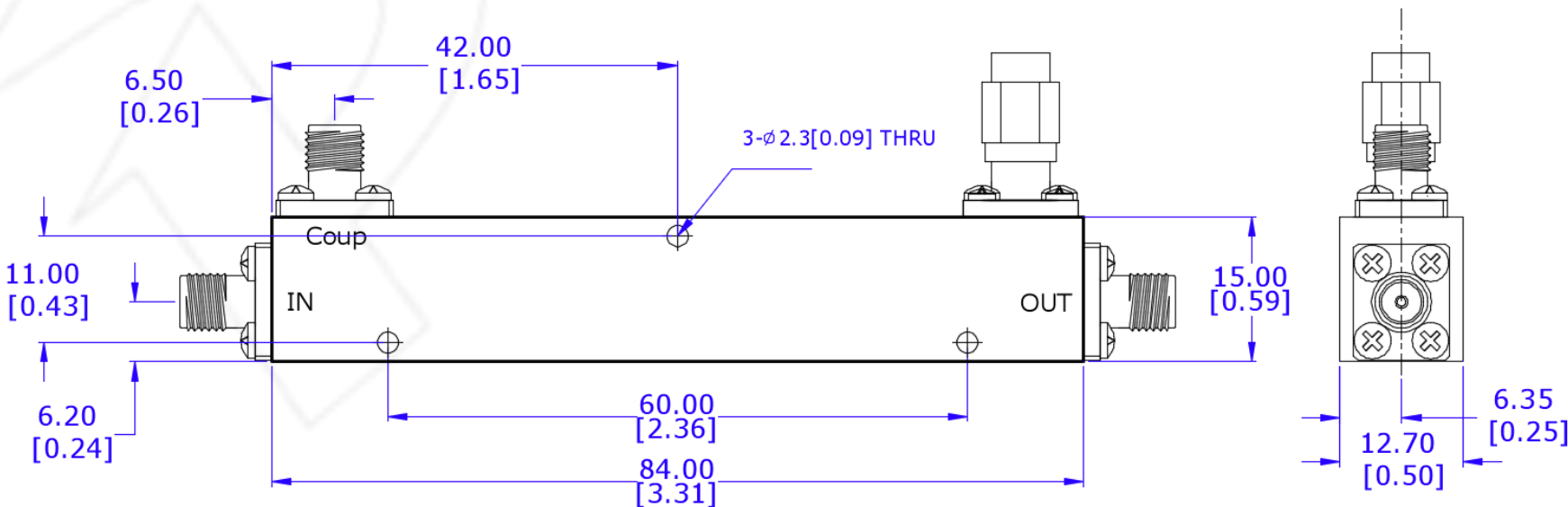
Mechanical Specifications

Description	Specification	Note
Cavity Material	Aluminum	
PCB	ROGERS , ARLON or TACONIC	
Dimension L*W*H	84*15*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]

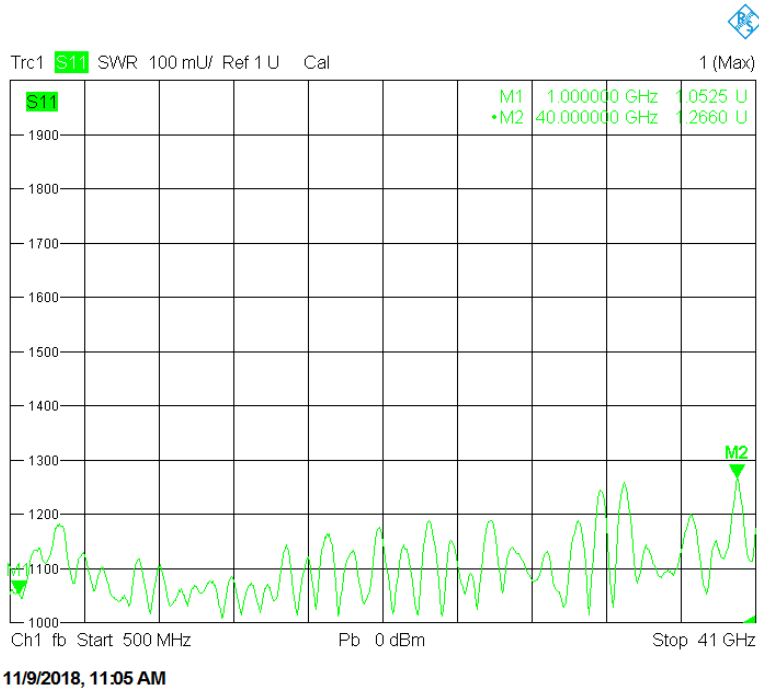


Test Curve

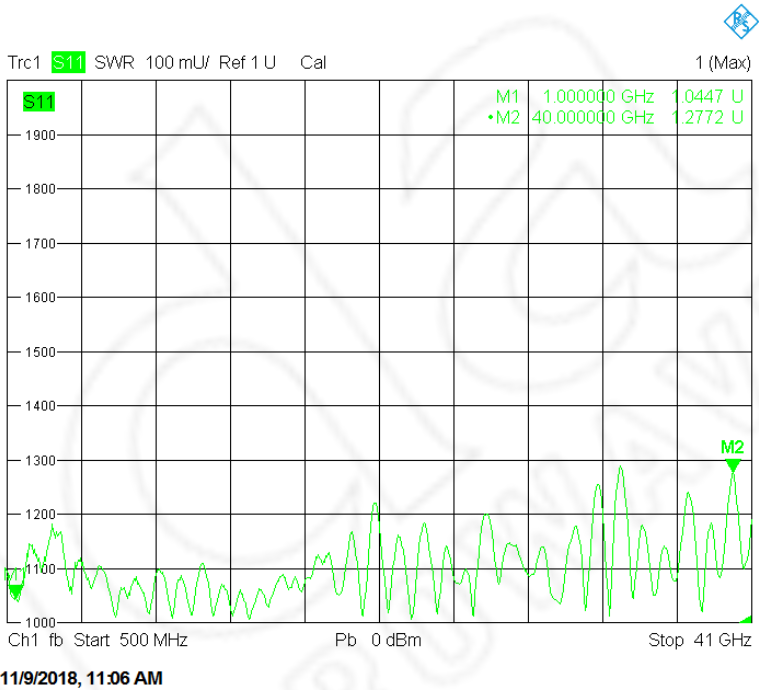
Test Freq. Range 1 to 40 GHz
Test Temperature +25 °C
P / N DC010400-1092_B

10dB Directional Coupler

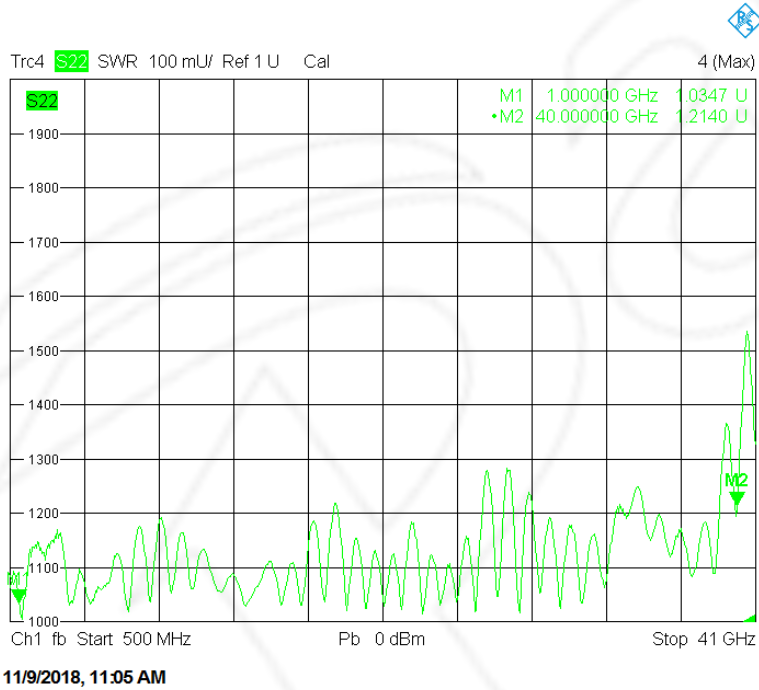
Input Port VSWR



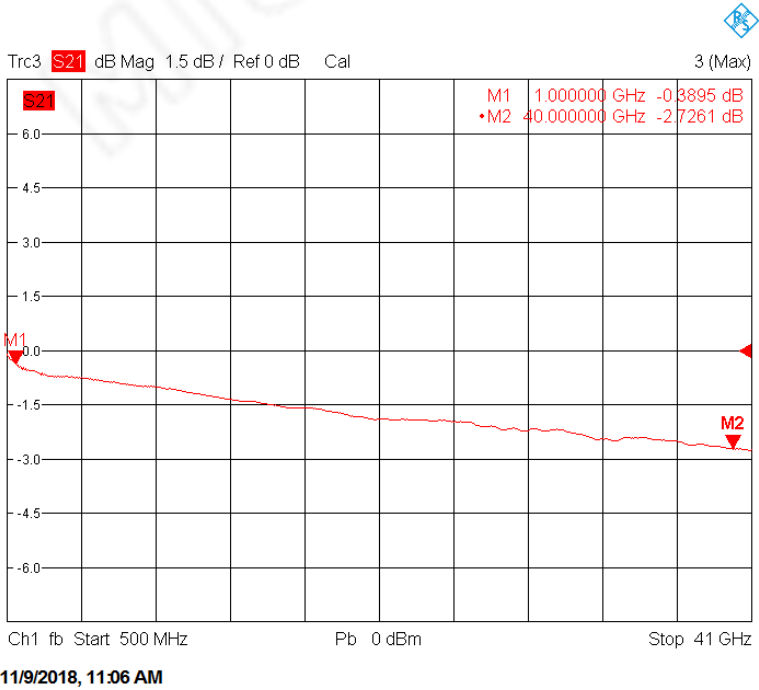
Thru-Port VSWR



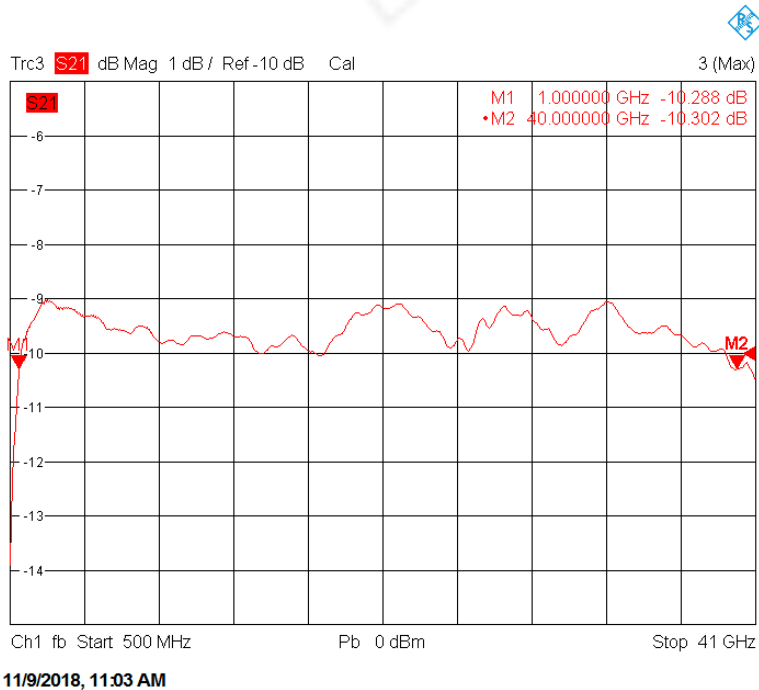
Coupling-Port VSWR



Insertion Loss



Coupling



Directivity

