Absorptive Coaxial SP2T USB Switch 0.8 - 20GHz

Features

- Wide Band Operation 0.8-20GHz
- USB Controlled and Powered.
- Low Insertion Loss and High Isolation
- Customization available upon request
- Control SW included.

Typical Applications

- Wireless Infrastructure
- 5G communication
- Test and measurement Instrument

RF Microwave & VSAT
Fiber Optics

Parameters	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range		0.8-8			8-12			12-20		GHz
Insertion Loss		1.6	1.8		2.2	2.4		2.7	3.2	dB
Insertion Loss Temperature Coefficient		0.003			0.003			0.003		dB/ ° C
Isolation	65	70		60	65		60	65		dB
Input VSWR		1.6	2		1.6	2		1.6	2	: 1
Output VSWR		1.6	2		1.6	2		1.6	2	: 1
RF Input power (CW)			30			30			30	dBm
DC Power Dissipation		0.6			0.6			0.6		W
0.1dB Compression Point (P 0.1dB)		30			30			30		dBm
IIP3		55			55			55		dBm
Switching Speed	500 Typ.									ns
Weight	1.5 Max.									ounces
Impedance	50									Ω
Bias Current	110 Max.									mA
Control Interface	USB 2.0 (Control Cable Included)									
Input / Output Connectors	SMA-Female									
Finish	Nickel Plated									
Material	Aluminum									

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Ordering Information

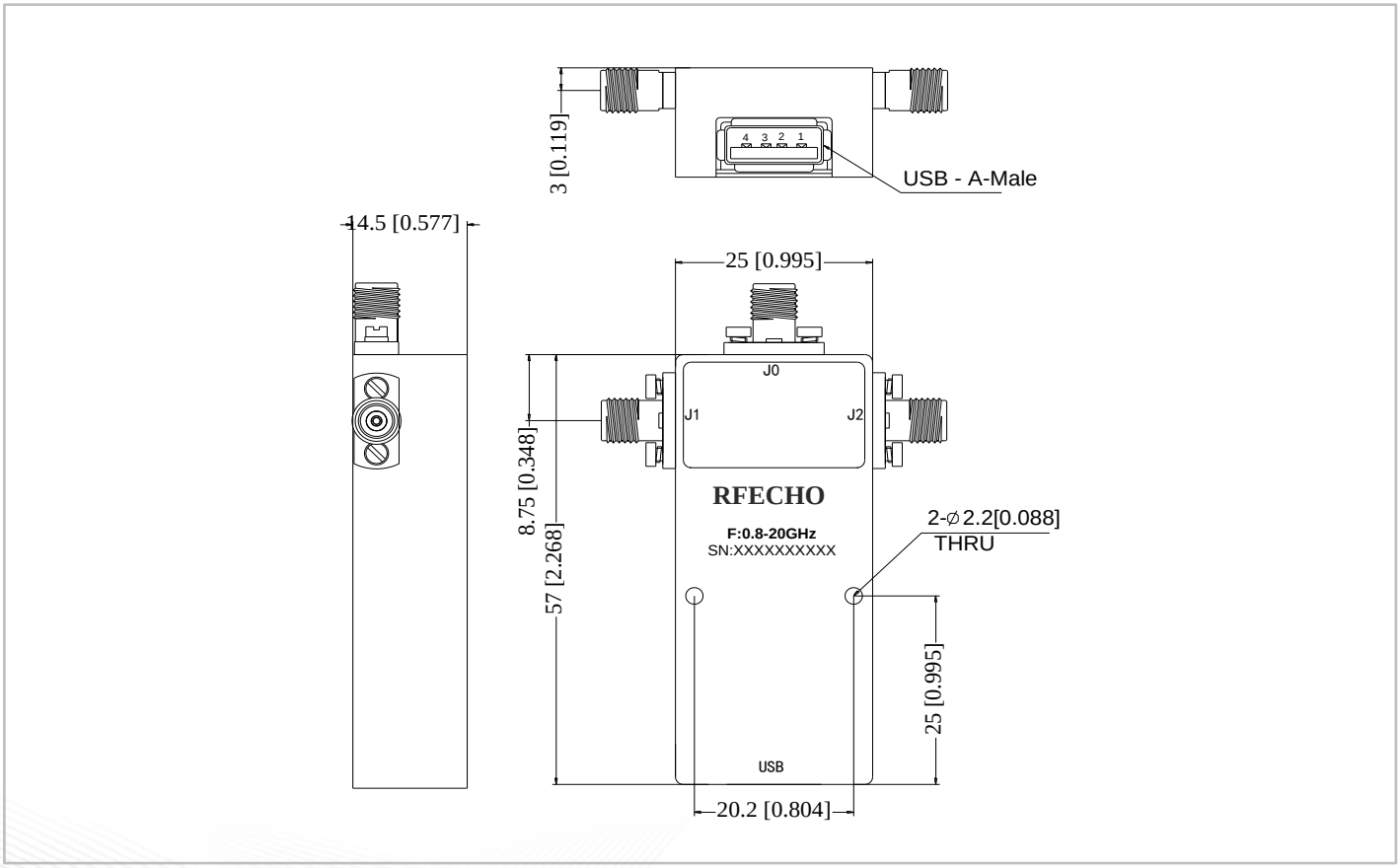
Part No.	Description
DBSA0200802000C	SP2T 0.8-20GHz PIN Diode Switch

Environmental Specifications

Operational Temperature	-40ºC~+85ºC
Storage Temperature	-50ºC~+105ºC
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Shock	20G for 11msec half sine wave, 3 axis both directions

Outline Drawing:

All Dimensions in mm (inches)



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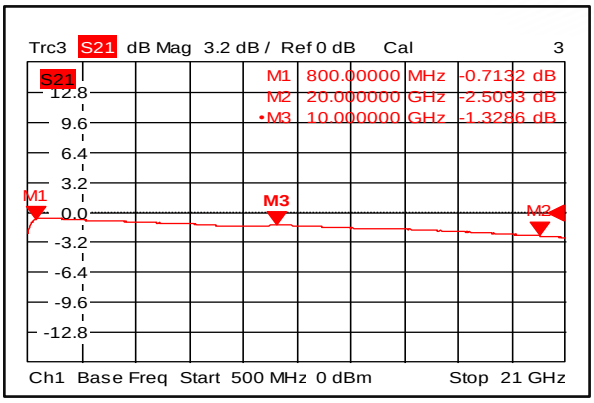
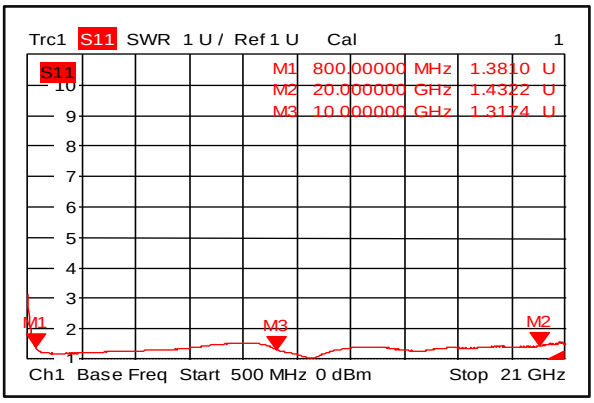
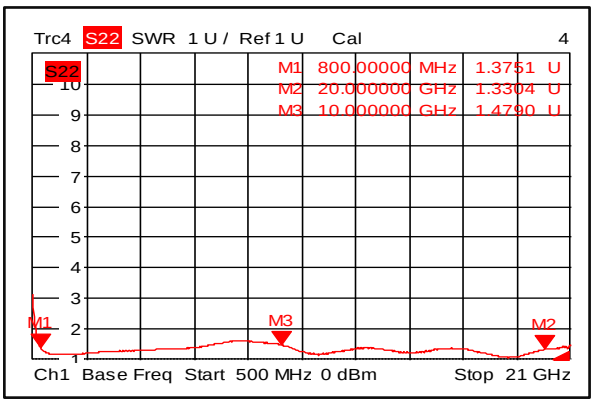
Insertion Loss @+25℃



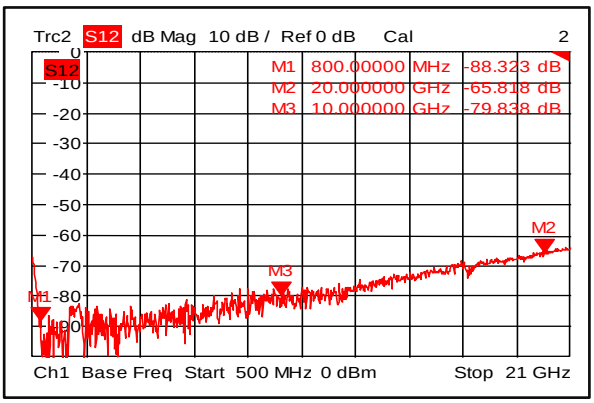
Input VSWR @+25℃



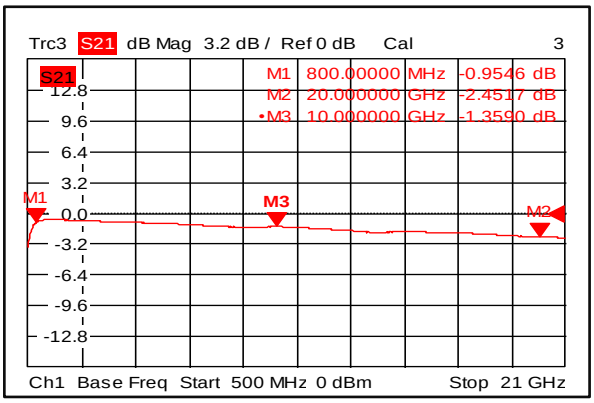
Output VSWR @+25℃



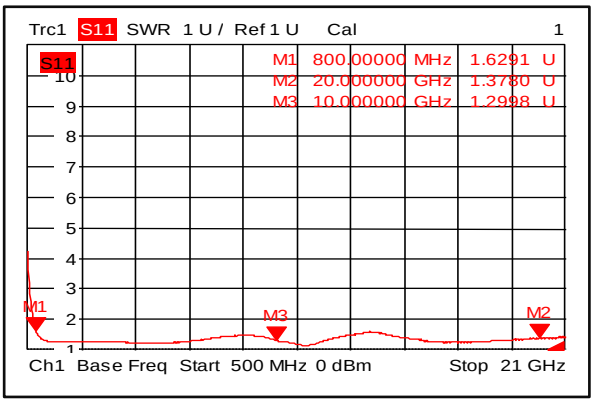
Isolation @+25℃



Insertion Loss @-40℃



Input VSWR @-40℃



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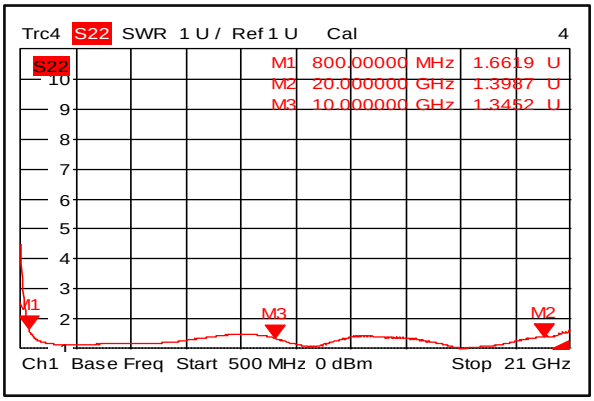
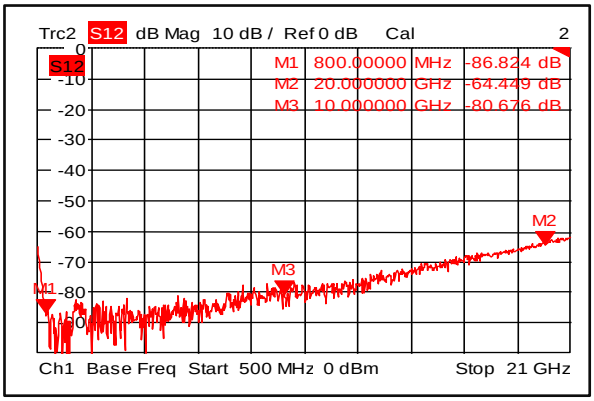
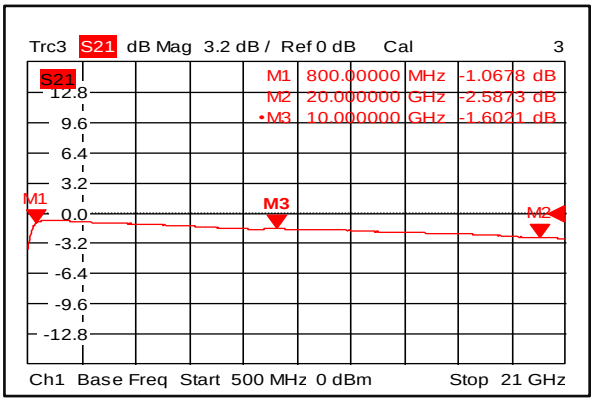
Output VSWR @-40℃



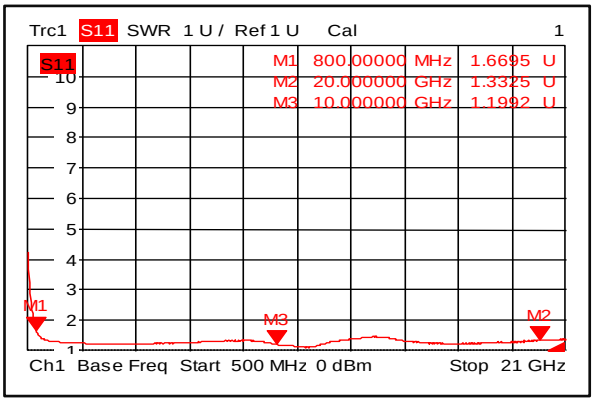
Isolation @-40℃



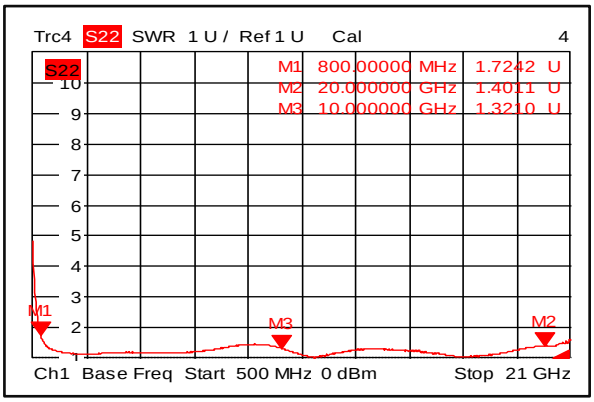
Insertion Loss @+85℃



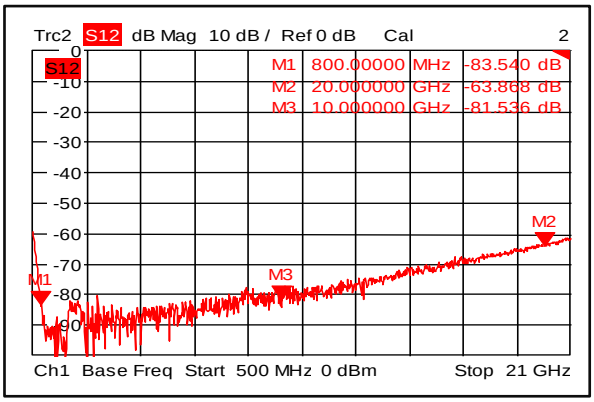
Input VSWR @+85℃



Output VSWR @+85℃



Isolation @+85℃



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