



# Absorptive Coaxial SP2T USB Switch 0.5 – 43.5GHz

## Features

- Wide Band Operation 0.5-43.5GHz
- 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	0.5		8	8		26.5	26.5		43.5	GHz
Insertion Loss		2.0	2.5		4.0	4.5		4.5	5.2	dB
Insertion Loss Temperature Coefficient		0.003			0.003			0.003		dB/ ° C
Isolation	60	85		50	60		45	55		dB
Input VSWR		1.6	2.0		2.5	2.8		1.8	2.5	: 1
Output VSWR		1.6	2.0		2.5	2.8		1.8	2.5	: 1
RF Input power (CW)			23			23			23	dBm
DC Power Dissipation		0.6			0.6			0.6		W
0.1dB Compression Point (P 0.1dB)		23			23			23		dBm
IIP3		55			50			45		dBm
Switching Speed	500Typ.									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	2.92mm-Female									
Finish	Nickel Plated									
Material	Aluminum									



### Ordering Information

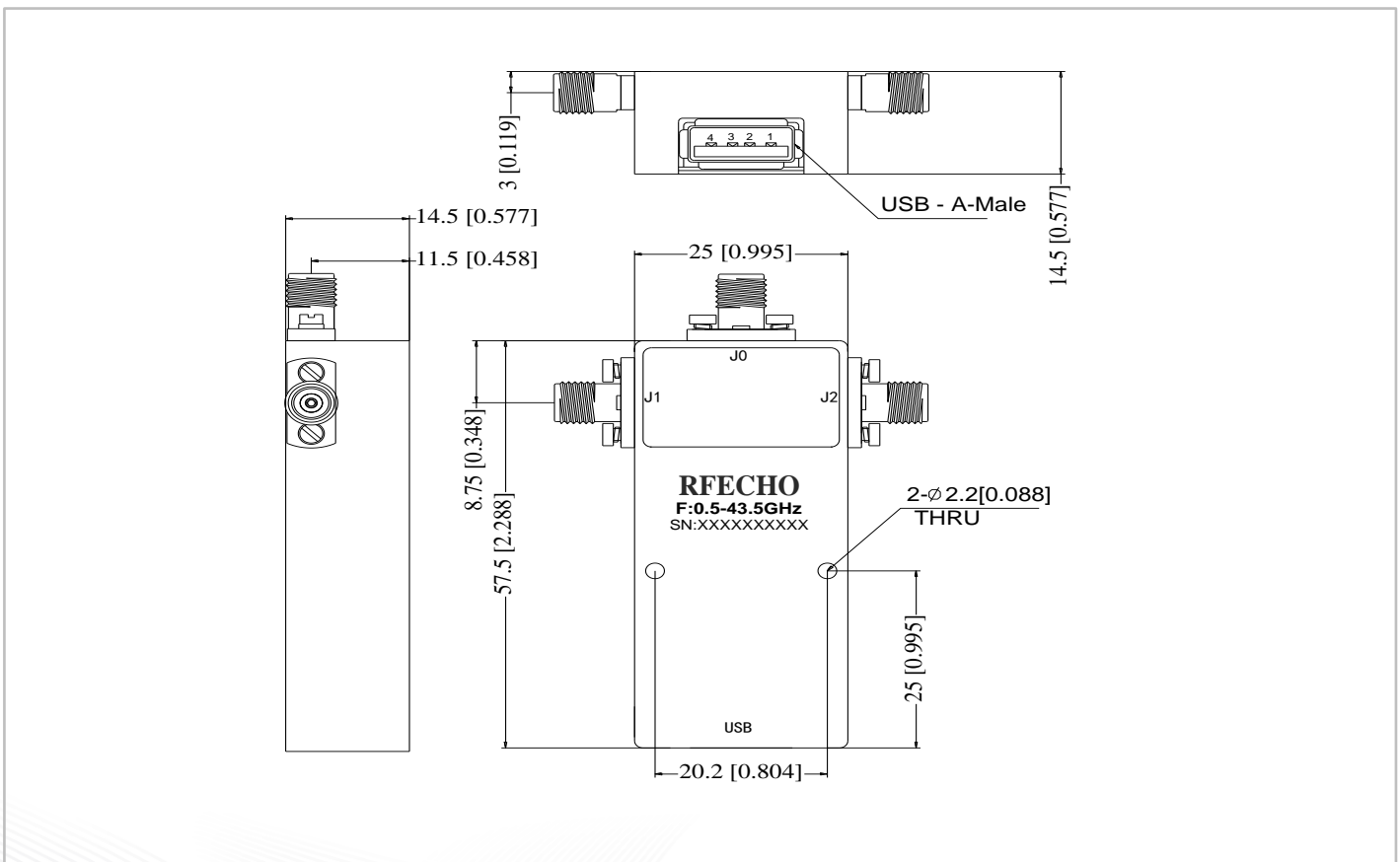
Part No.	Description
DBSA0200504350C	SP2T 0.5-43.5GHz PIN Diode Switch

### Environmental Specifications

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

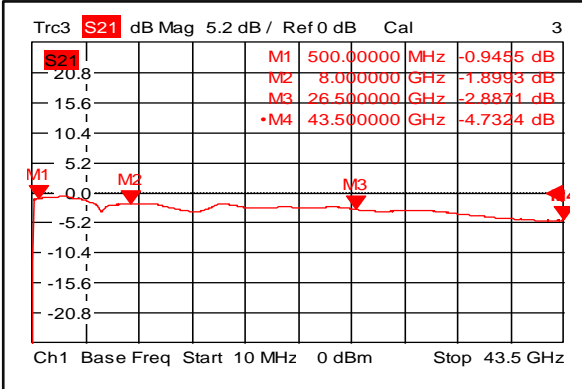
### Outline Drawing:

All Dimensions in mm (inches)

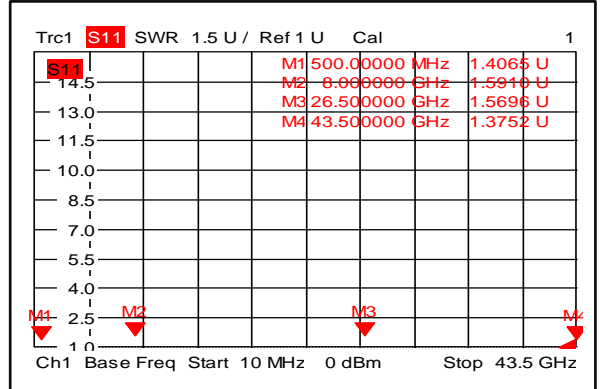




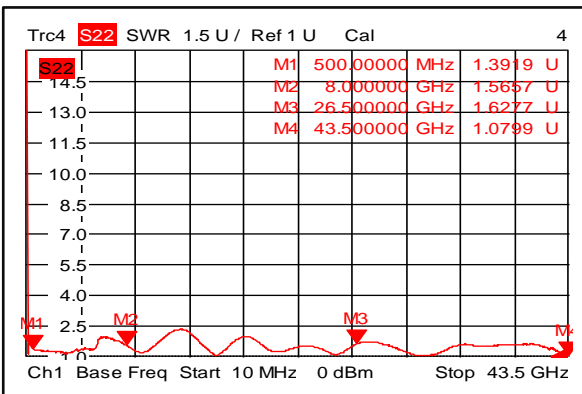
### Insertion Loss @+25°C



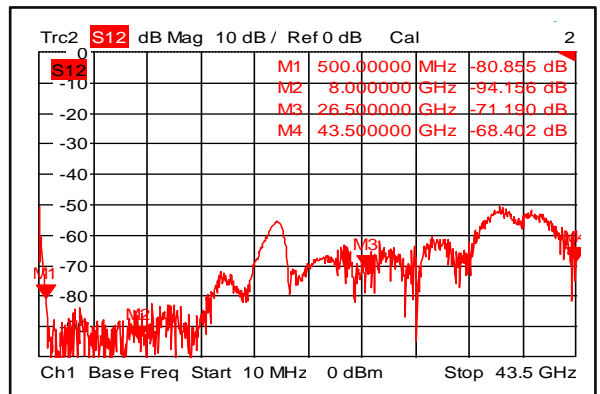
### Input VSWR @+25°C



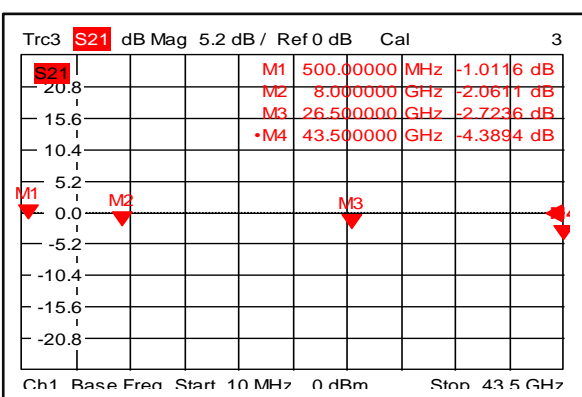
### Output VSWR @+25°C



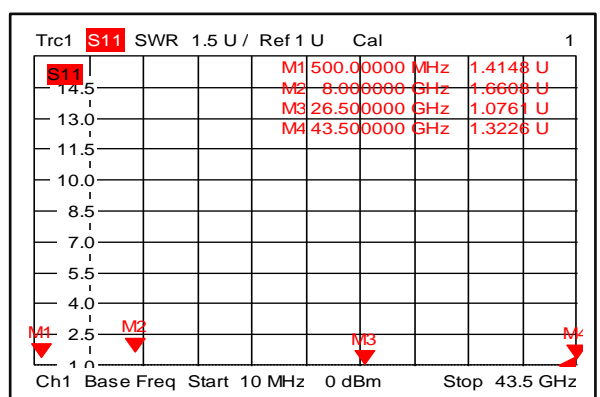
### Isolation @+25°C



### Insertion Loss @-40°C

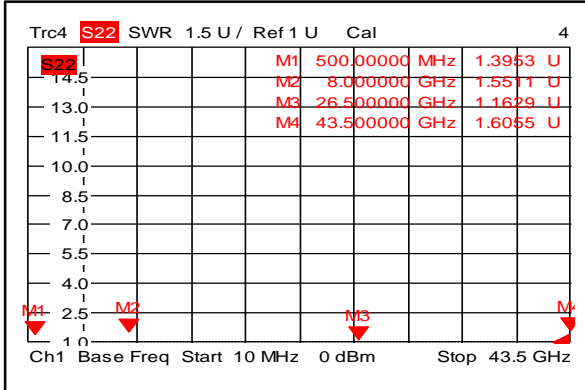


### Input VSWR @-40°C

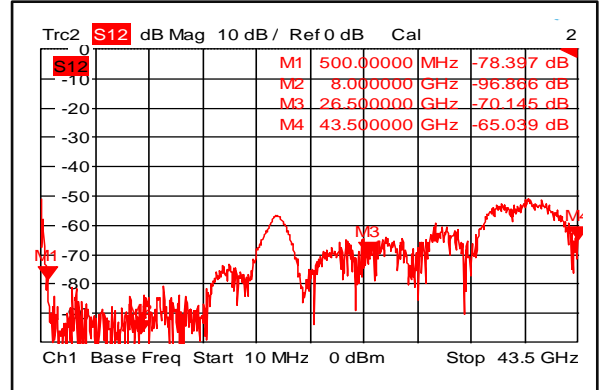




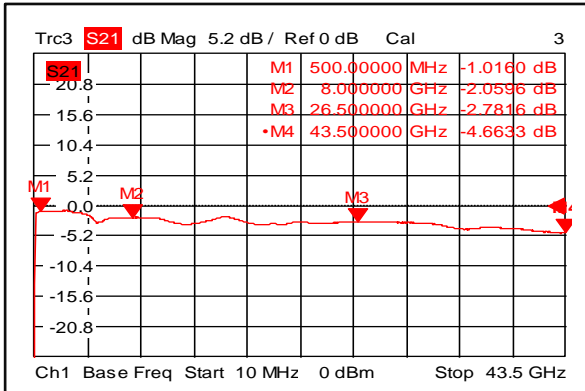
### Output VSWR @-40°C



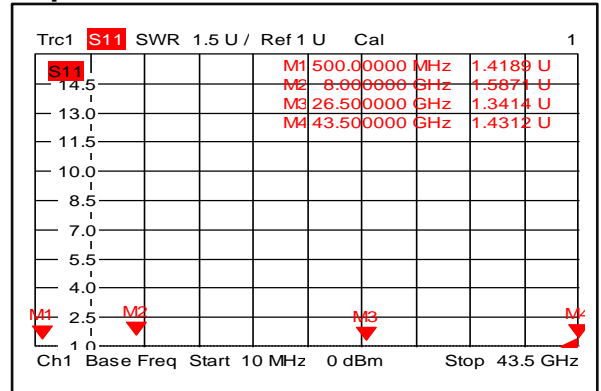
### Isolation @-40°C



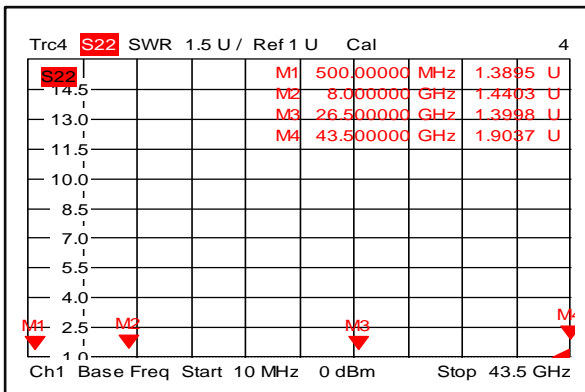
### Insertion Loss @+85°C



### Input VSWR @+85°C



### Output VSWR @+85°C



### Isolation @+85°C

