



USB Control Absorptive SP2T Switch 2 - 18GHz

Features

- Wide Band Operation 2-18GHz
- 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	2-8			8-12			12-18			GHz
Insertion Loss		1.6	1.8		2.2	2.4		2.7	3	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)			1			1			1	W
DC Power Dissipation		0.6			0.6			0.6		W
0.1dB Compression Point (P0.1dB)		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									

Ordering Information

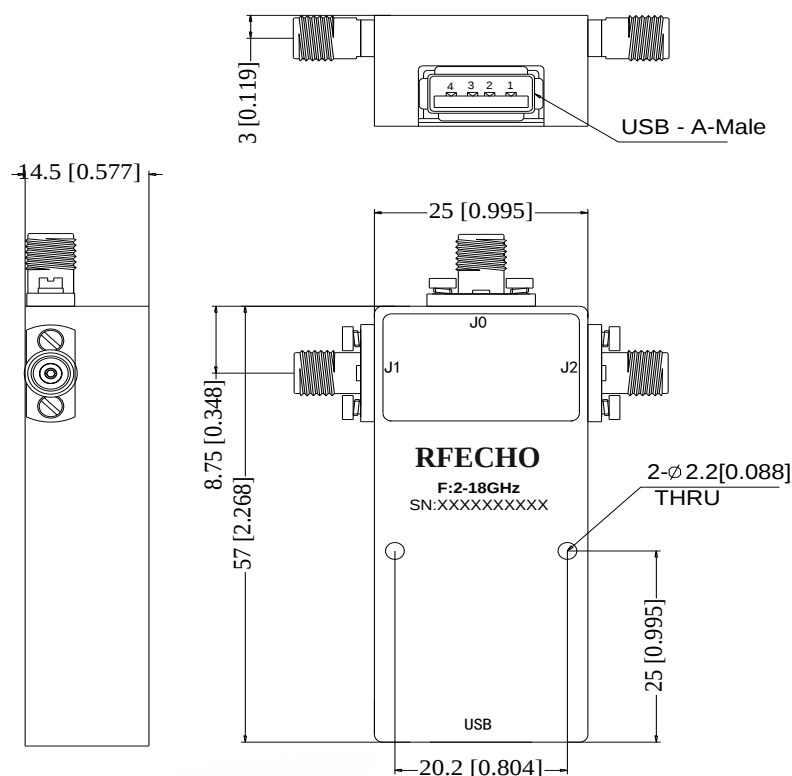
Part No.	Description
DBSA0202001800U	SP2T 2-18GHz PIN Diode Switch

Environmental Specifications

Operational Temperature	-40°C~+85°C
Storage Temperature	-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

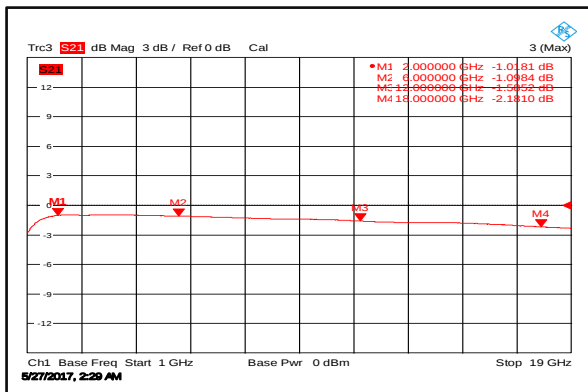
Outline Drawing:

All Dimensions in mm (inches)

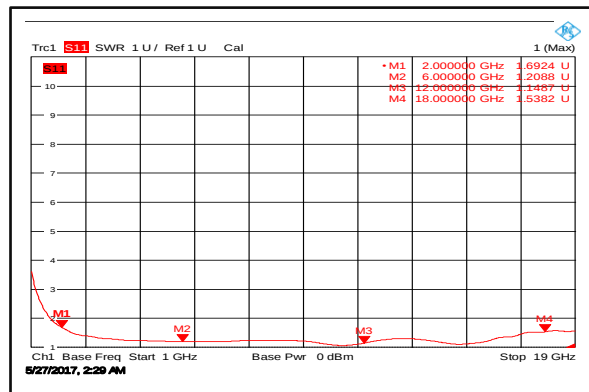




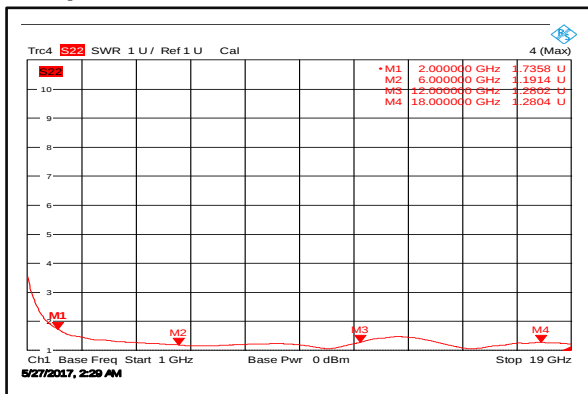
Insertion Loss @+25°C



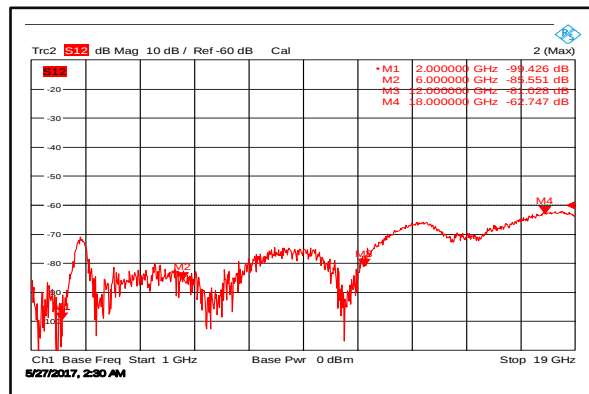
Input VSWR @+25°C



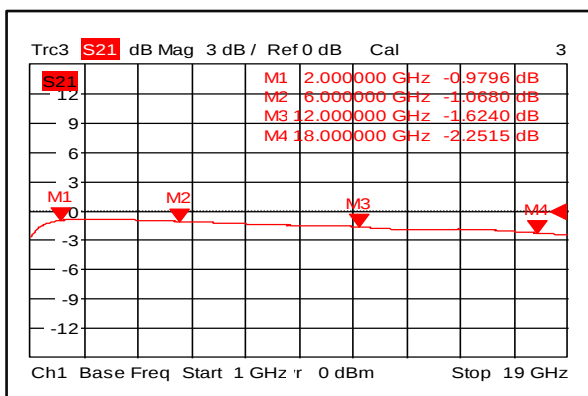
Output VSWR @+25°C



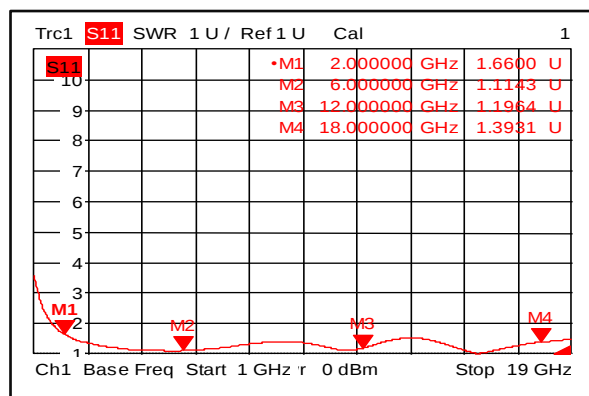
Isolation @+25°C



Insertion Loss @-40°C

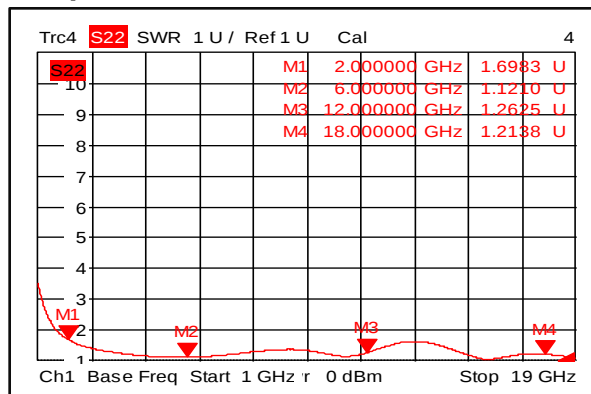


Input VSWR @-40°C

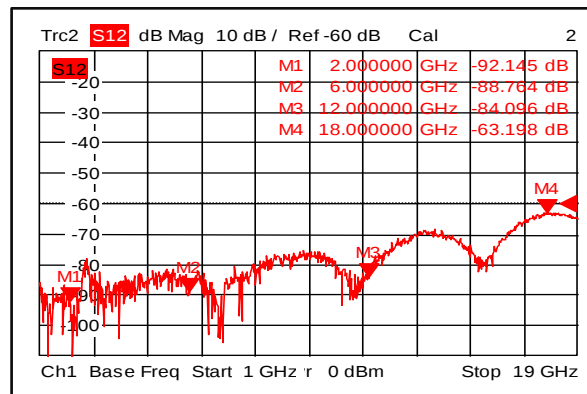




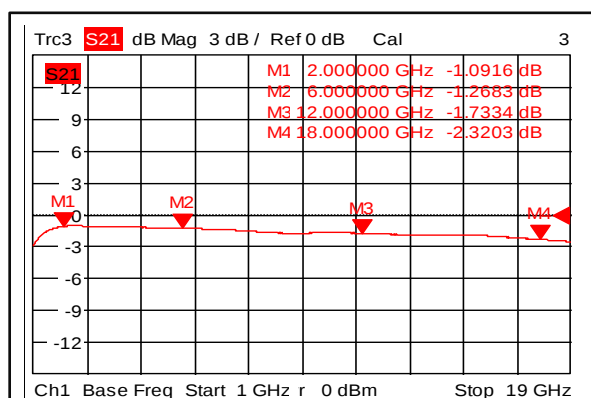
Output VSWR @-40°C



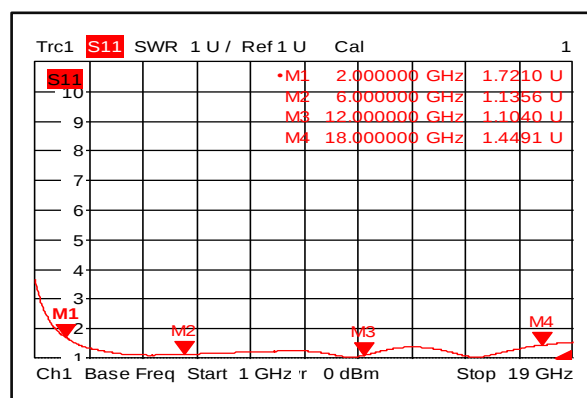
Isolation @-40°C



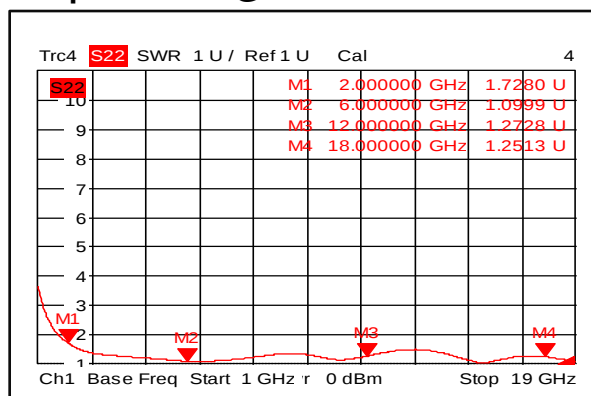
Insertion Loss @+85°C



Input VSWR @+85°C



Output VSWR @+85°C



Isolation @+85°C

