



USB / Ethernet Absorptive Coaxial SP2T Switch 0.5- 50GHz



Features

- Wide Band Operation 0.5-50GHz
- 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

Parameter	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	0.1-18		18-43.5		43.5-50					GHz
Insertion Loss		3.3	4		4.5	5		6.2	7.5	dB
Insertion Loss Temperature Coefficient		0.003			0.003			0.003		dB/ ° C
Isolation	50	65		40	50		50	55		dB
Input VSWR		1.8	2.5		2.5	3		2	2.5	: 1
Output VSWR		1.8	2.5		2.5	3		2	2.5	: 1
RF Input Power (CW)			23			23			23	dBm
DC Power Dissipation		0.95			0.95			0.95		W
0.1dB Compression Point (P 0.1dB)		23			23			23		dBm
IIP3		40			40			38		dBm
Weight	2.9 Max.									ounces
Impedance	50									Ω
Bias Current	210 Max.									mA
Power Supply	USB(+5.0V)									
Control Interface	USB2.0 & Ethernet(IPv4) (Control Cable Included)									
Input / Output Connectors	2.4mm-Female									
Finish	Nickel Plated									
Material	Aluminum									



Ordering Information

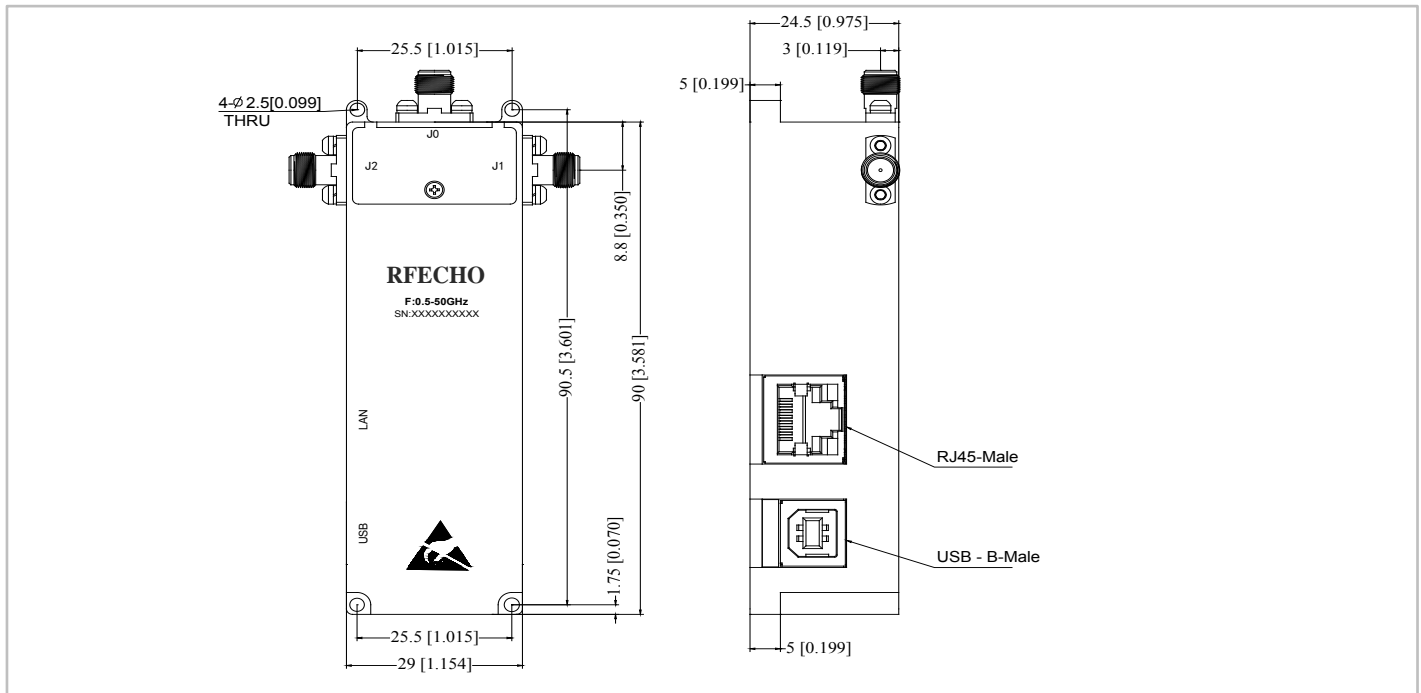
Part No.	Description
DBSA0200505000A	SP2T 0.5-50GHz USB / Ethernet Control Switch

Environmental Specifications

Operational Temperature	-40°C~+85°C (Case Temperature)
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:

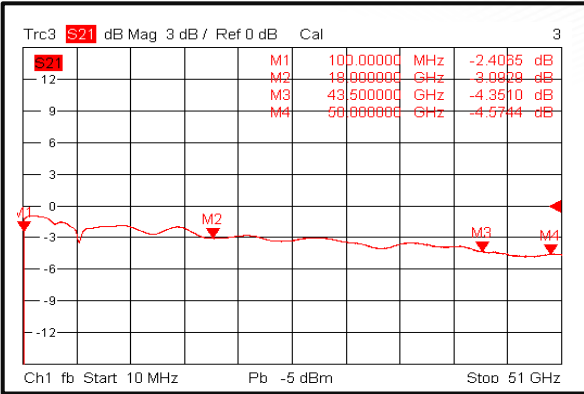
All Dimensions in mm (inches)



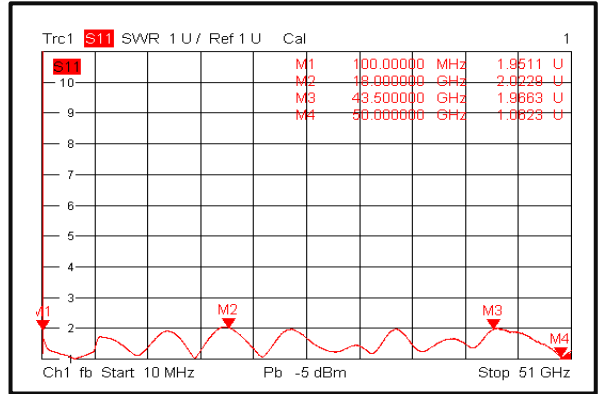
ID	Packing List	QTY
1	Fig a. USB/Ethernet Control RF Switch	1
2	Fig b. USB2.0 Cable (5 feet / 1.5 meter)	1
3	Fig c. Network Cable (6 feet / 2 meter)	1



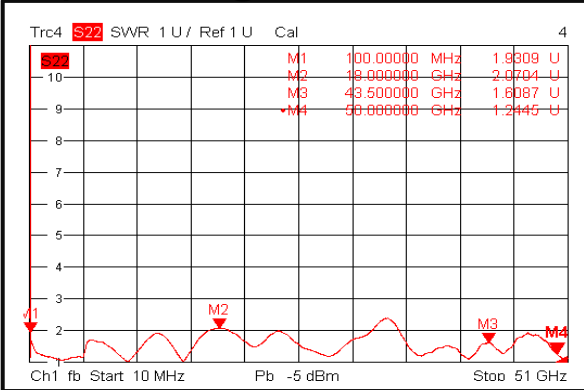
Insertion Loss @+25°C



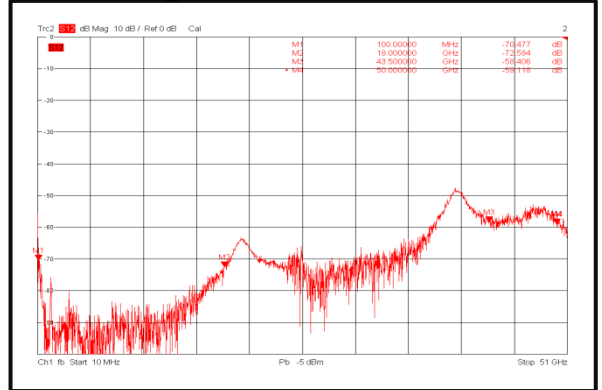
Input VSWR @+25°C



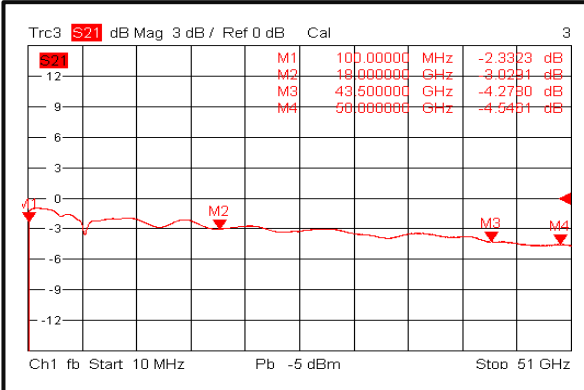
Output VSWR @+25°C



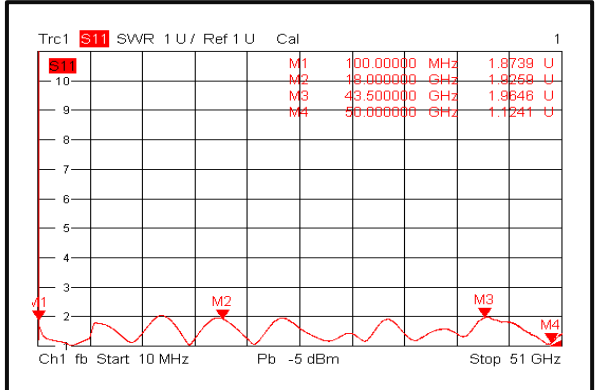
Isolation @+25°C



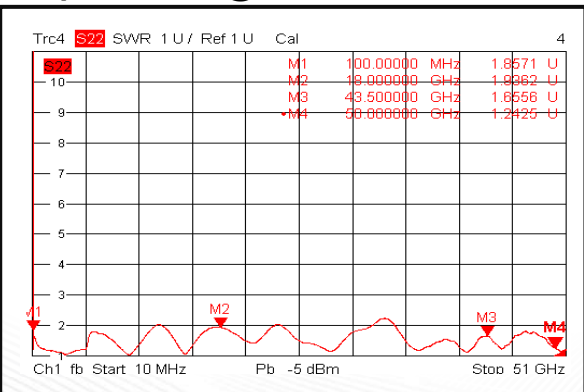
Insertion Loss @-40°C



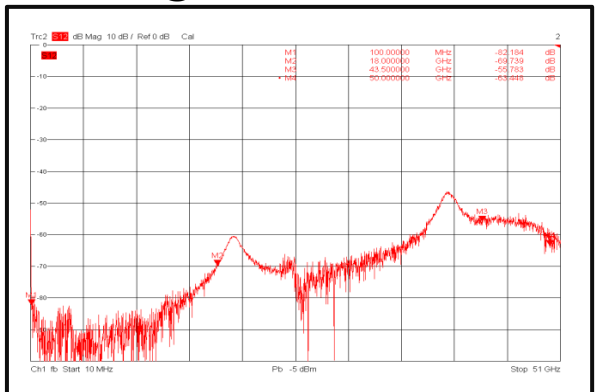
Input VSWR @-40°C



Output VSWR @-40°C

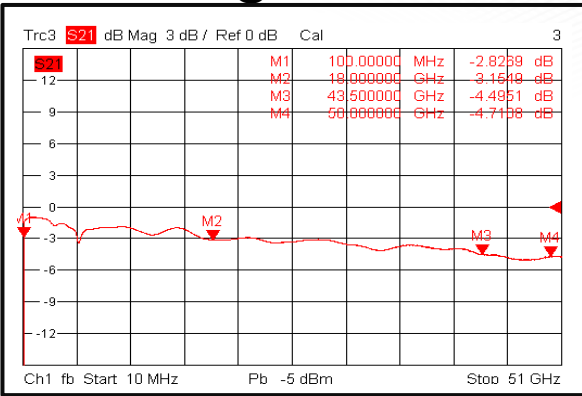


Isolation @-40°C

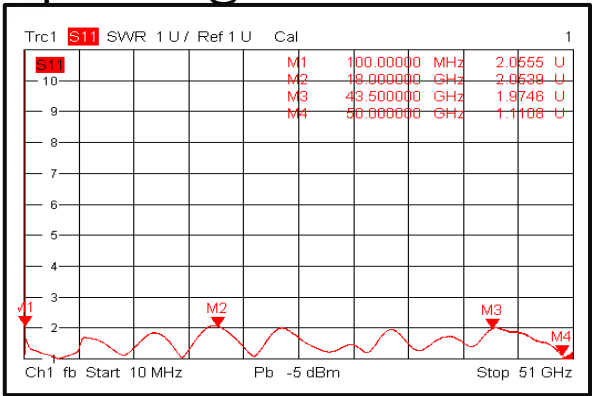




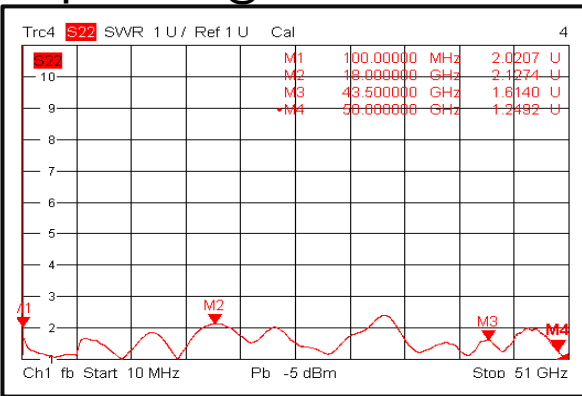
Insertion Loss @+85°C



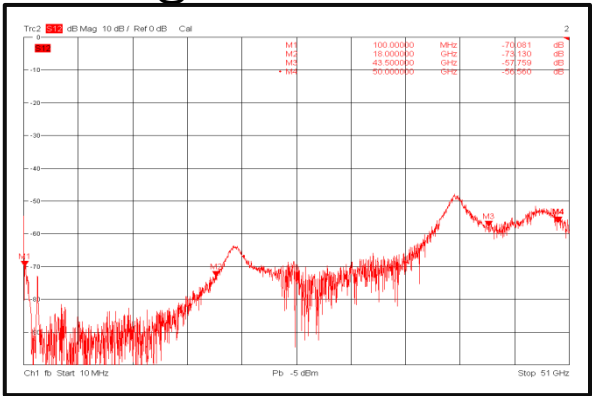
Input VSWR @+85°C



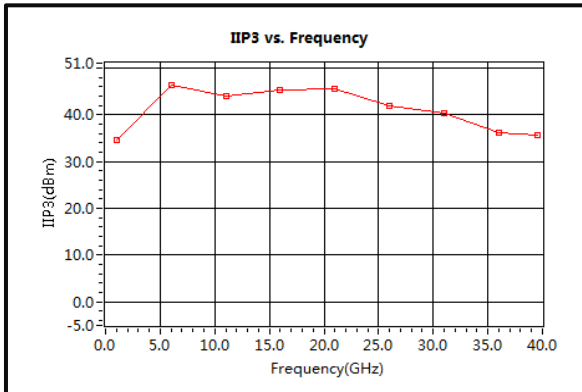
Output VSWR @+85°C



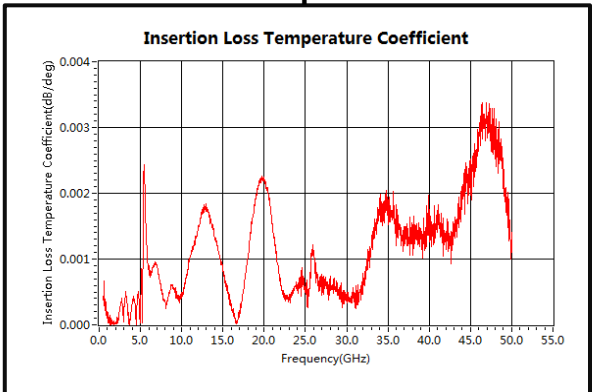
Isolation @+85°C



IIP3



Insertion Loss Temperature Coefficient



Insertion Loss vs. Temperature

