



USB / Ethernet Absorptive 0.5-50GHz Coaxial SP4T Switch

Features

- Ultra Wide Band Operation 0.5-50GHz
- USB / Ethernet Control
- 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		18	18		43.5	43.5		50	GHz
Insertion Loss		3.3	4.0		5.0	6.0		6.5	7.0	dB
Insertion Loss Temperature Coefficient		0.003			0.003			0.003		dB/ ° C
Isolation	60	70		40	55		45	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		0.8			0.8			0.8		W
0.1dB Compression Point (P 0.1dB)		23			23			23		dBm
IIP3		43			38			35		dBm
Weight	3.5 Max.									ounces
Impedance	50									Ω
Bias Current	260 Typ.									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

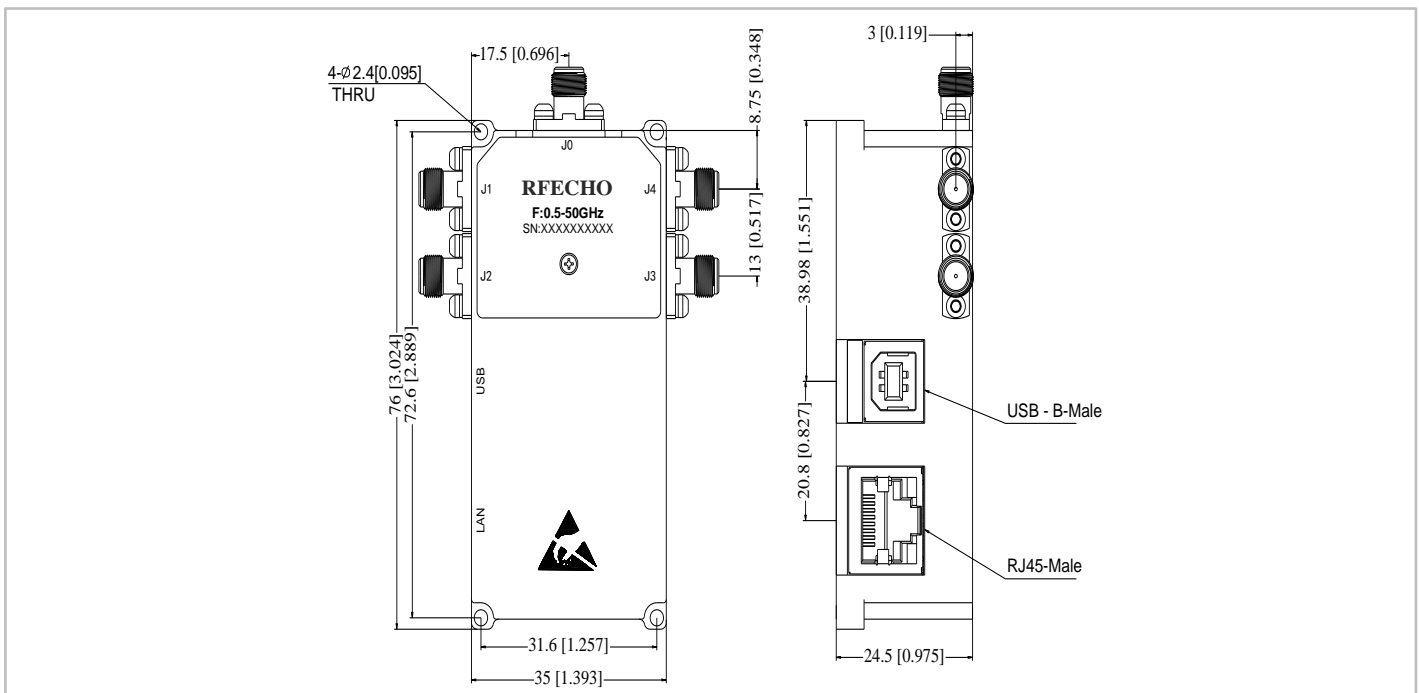
Part No.	Description
DBSA0400505000A	SP4T 0.5-50GHz USB / Ethernet Controlled Switch

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:

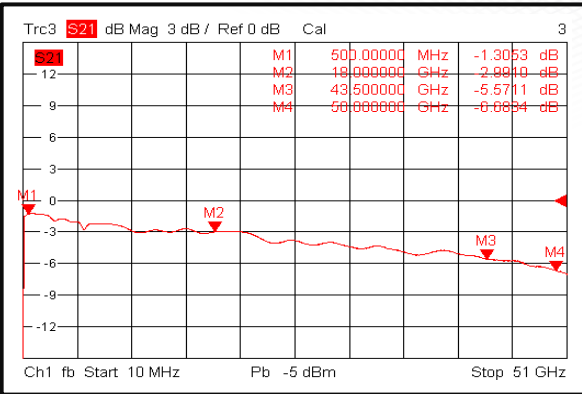
All Dimensions in mm (inches)



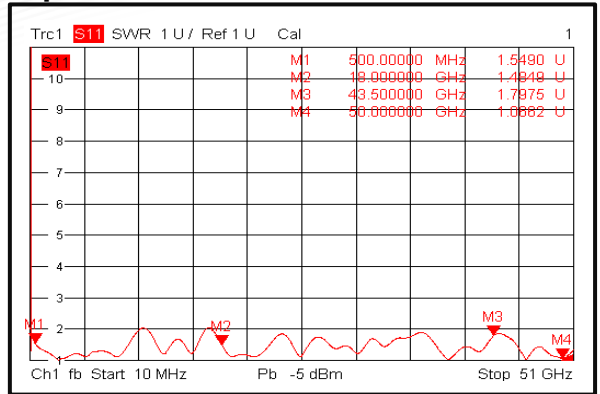
ID	Packing List	QTY
1	Fig a. USB/Ethernet Control RF Switch	1
2	Fig b. USB2.0 Cable (5 feet / 1.5 meter)	1
3	Fig c. Network Cable (6 feet / 2 meter)	1
4	Fig d. International Universal AC Power Adapter (For SP6T or higher)	1



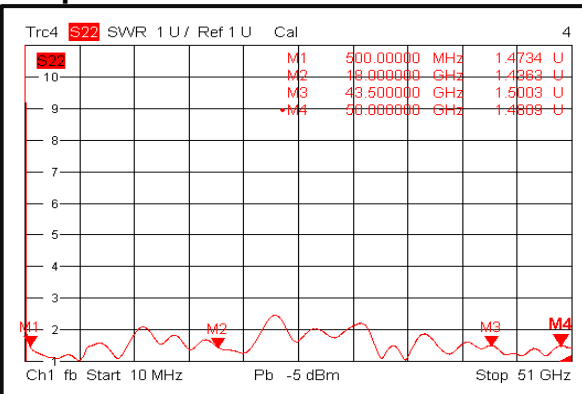
Insertion Loss @+25°C



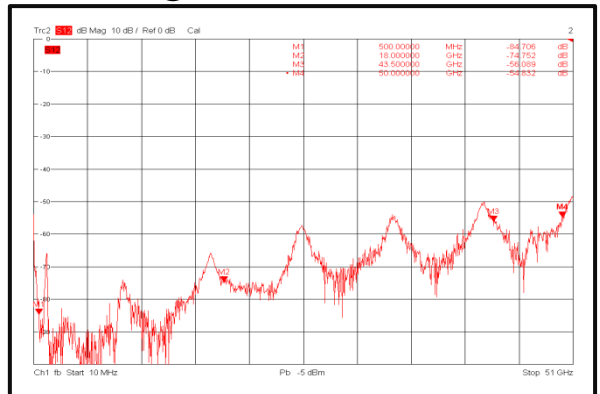
Input VSWR @+25°C



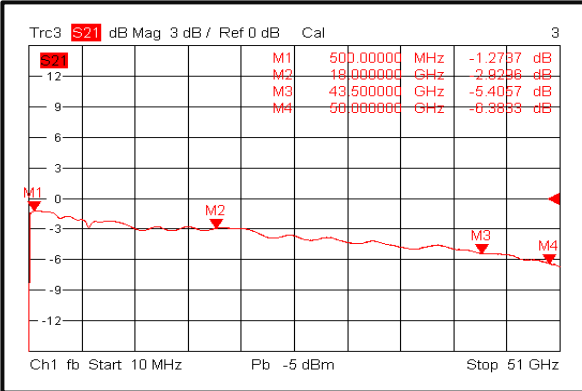
Output VSWR @+25°C



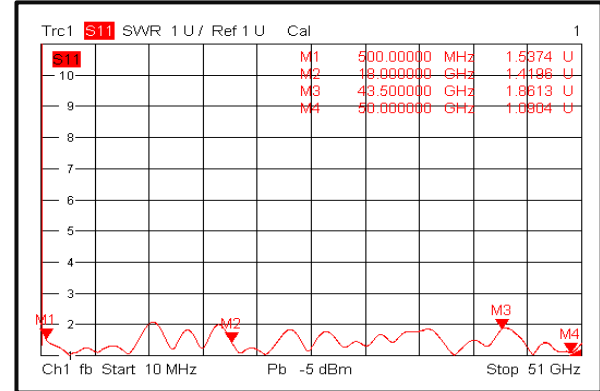
Isolation @+25°C



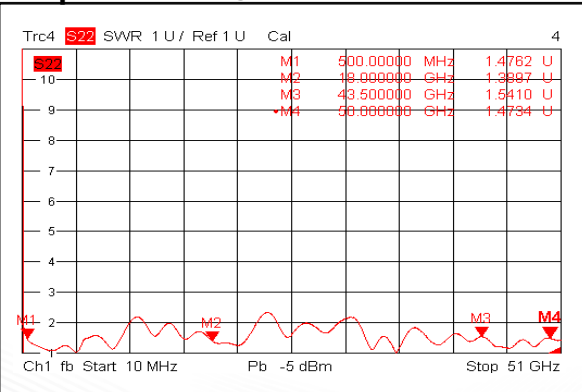
Insertion Loss @-40°C



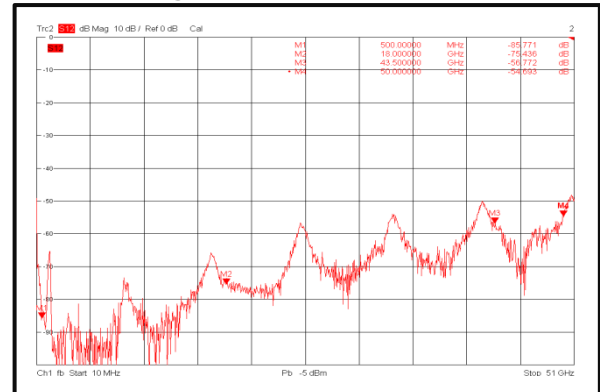
Input VSWR @-40°C



Output VSWR @-40°C

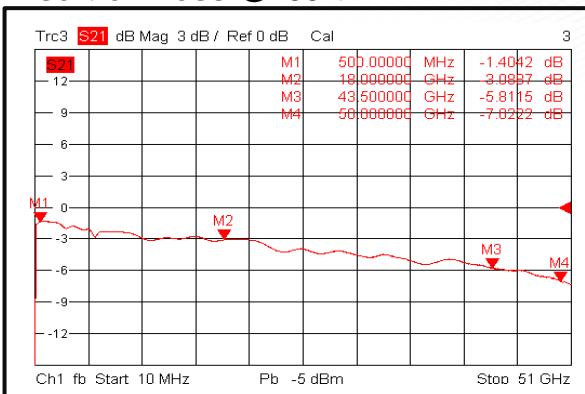


Isolation @-40°C

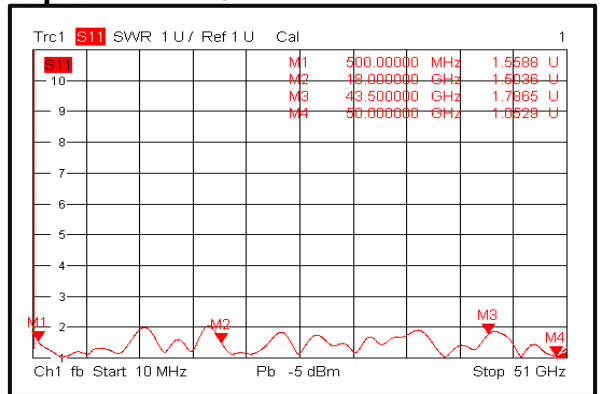




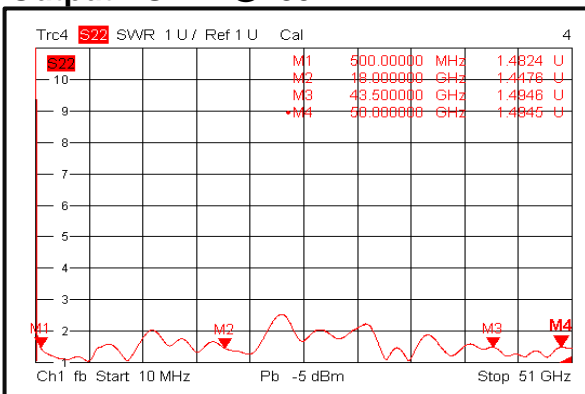
Insertion Loss @+85°C



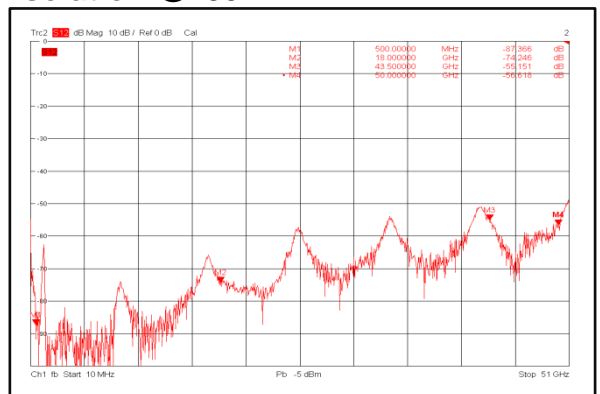
Input VSWR @+85°C



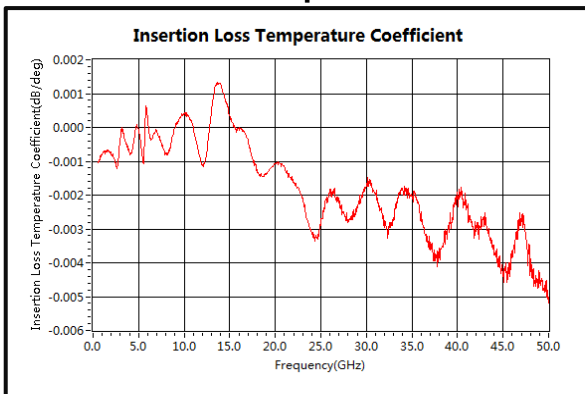
Output VSWR @+85°C



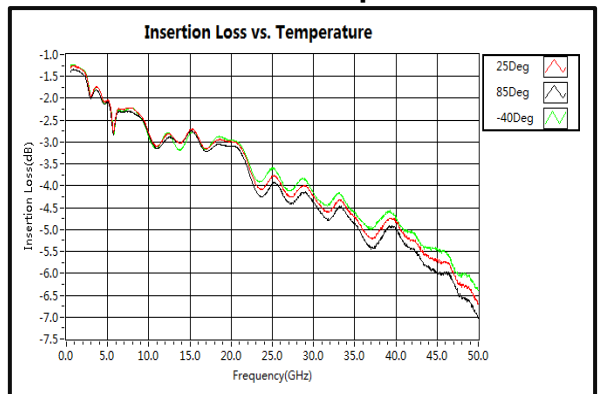
Isolation @+85°C



Insertion Loss Temperature Coefficient



Insertion Loss vs. Temperature



IIP3

