USB Absorptive Coaxial SP8T Switch 0.5 - 50GHz

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		0.1-18			18-43.5			43.5-50		GHz
Insertion Loss		5.5	6.5		7.5	8.5		9.5	10.0	dB
Insertion Loss Temperature Coefficient		0.003			0.003			0.003		dB/ ° C
Isolation	50	65		48	55		45	53		dB
Input VSWR		2	3		2.5	3		2	2.5	: 1
Output VSWR		2	3		2.5	3		2	2.5	: 1
RF Input Power (CW)			23			23			23	dBm
DC Power Dissipation		1.5			1.5			1.5		W
0.1dB Compression Point (P 0.1dB)		23			23			23		dBm
IIP3		43			38			33		dBm
Weight	4.8 Max.									ounces
Impedance	50									Ω
Bias Current	320 Typ.									mA
Power Supply	DC (+5.0V)									
Control Interface	USB2.0 & Ethernet(IPv4) (Control Cable Included)									
Input / Output Connectors	2.4mm-Female									
Finish	Nickel Plated									
Material	Aluminum									

Ordering Information

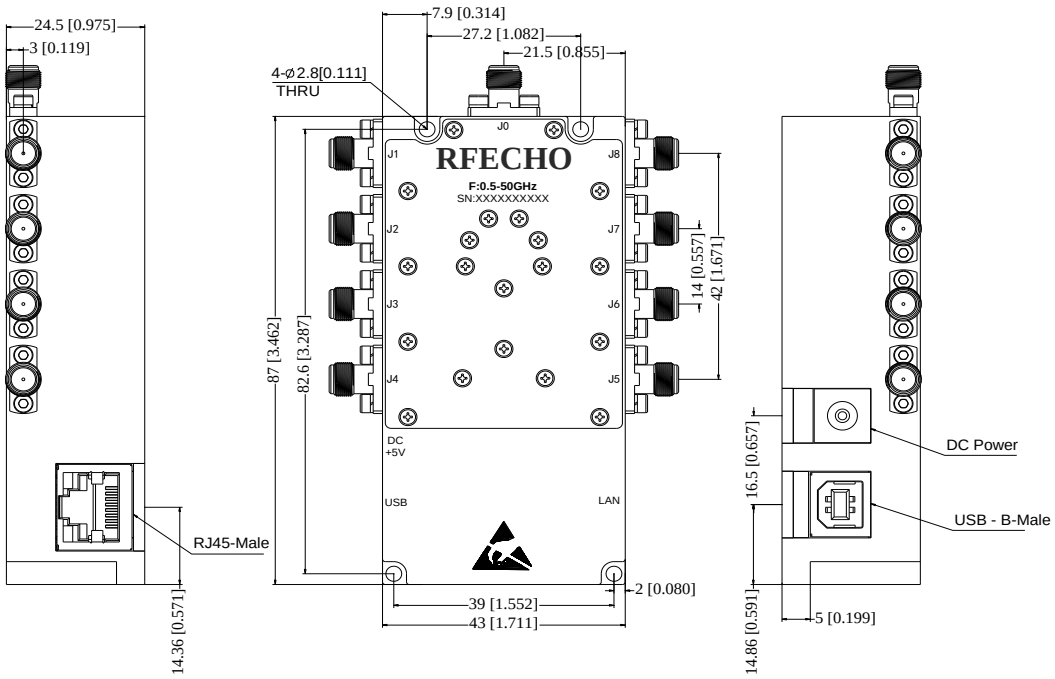
Part No.	Description
DBSA0800505000A	SP8T 0.5-50GHz PIN Diode Switch

Environmental Specifications

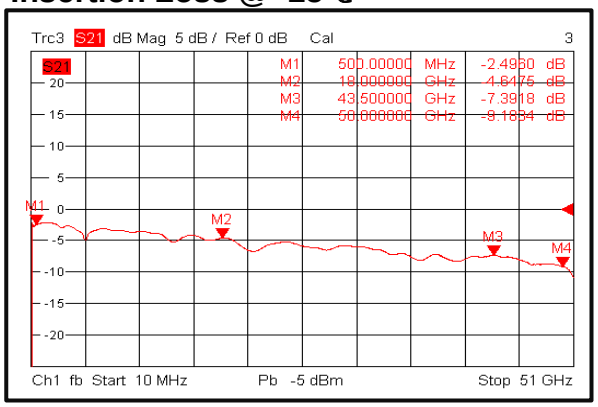
Operational Temperature	-40ºC~+85ºC
Storage Temperature	-50ºC~+105ºC
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Shock	20G for 11msec half sine wave,3 axis both directions

Outline Drawing:

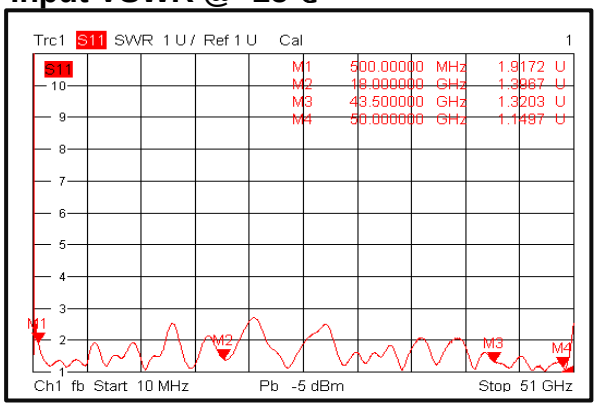
All Dimensions in mm (inches)



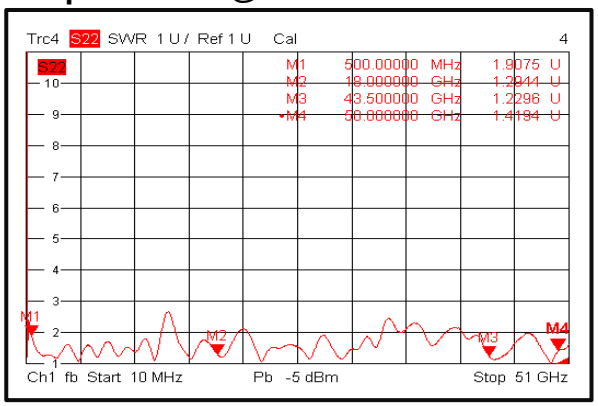
Insertion Loss @+25℃



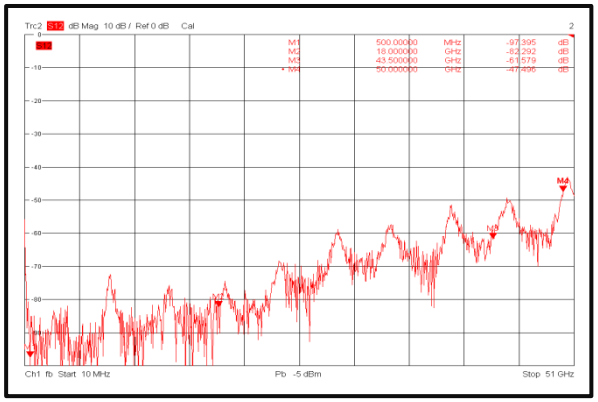
Input VSWR @+25℃



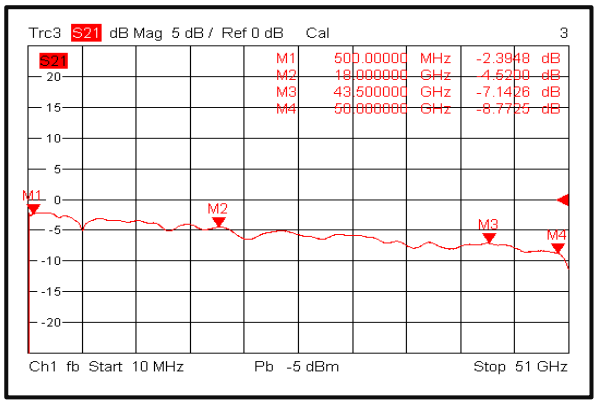
Output VSWR @+25℃



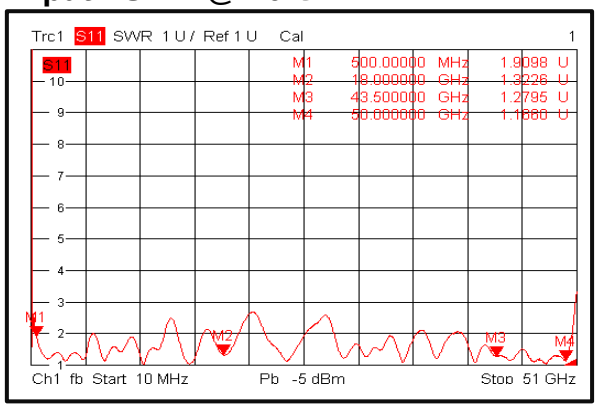
Isolation @+25℃



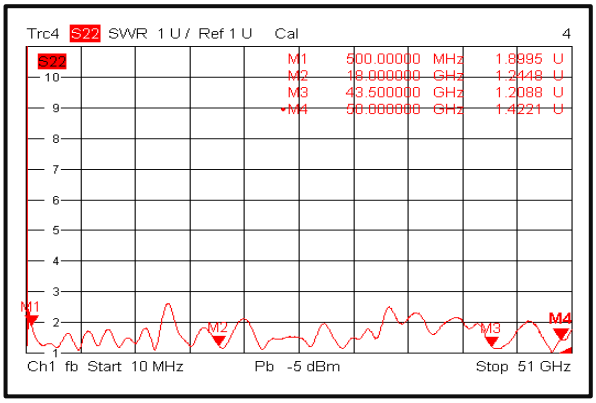
Insertion Loss @-40℃



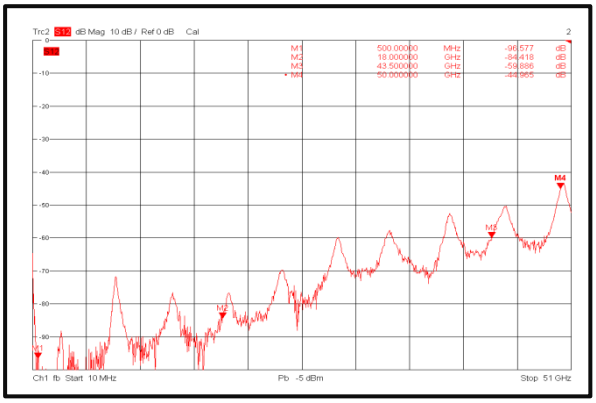
Input VSWR @-40℃



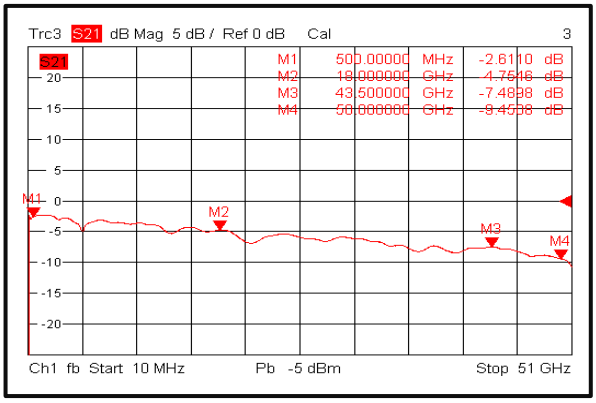
Output VSWR @-40℃



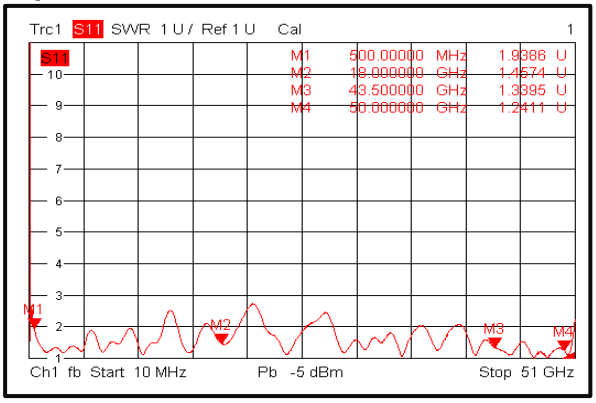
Isolation @-40℃



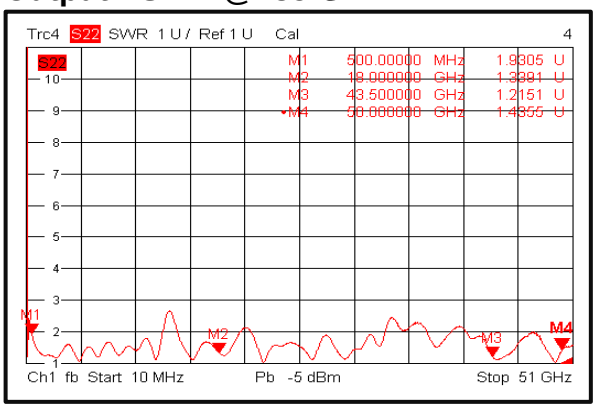
Insertion Loss @+85℃



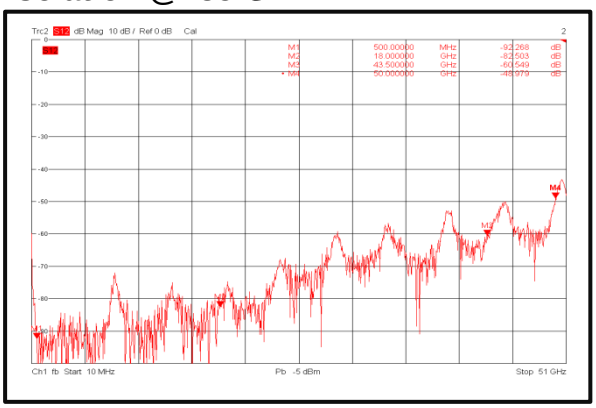
Input VSWR @+85℃



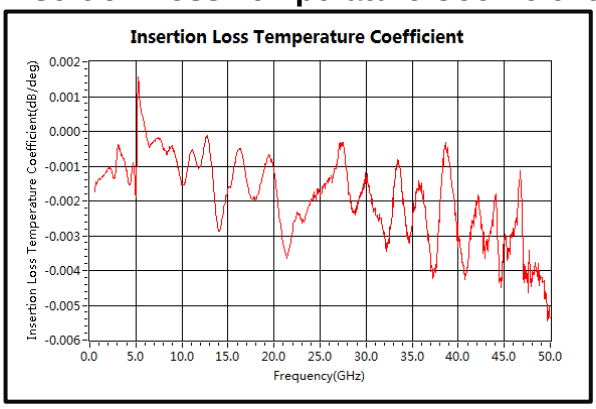
Output VSWR @+85℃



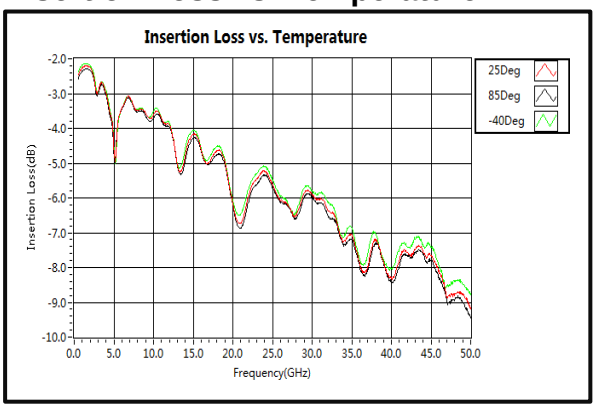
Isolation @+85℃



Insertion Loss Temperature Coefficient



Insertion Loss vs. Temperature



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