



USB / Ethernet Absorptive Coaxial SP2T 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
- Test and measurement Instrument
- Fiber Optics

RF Microwave & VSAT

5G communication

Parameter	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		48			40			38		dBm
Weight	3 Max.									ounces
Impedance	50									Ω
Current	210 Typ.									mA
Power Supply	USB(+5.0V)									
Control Interface	USB2.0 & Ethernet(IPv4) (Control Cable Included)									
Input / Output Connectors	2.92mm-Female									
Finish	Nickel Plated									
Material	Aluminum									



Ordering Information

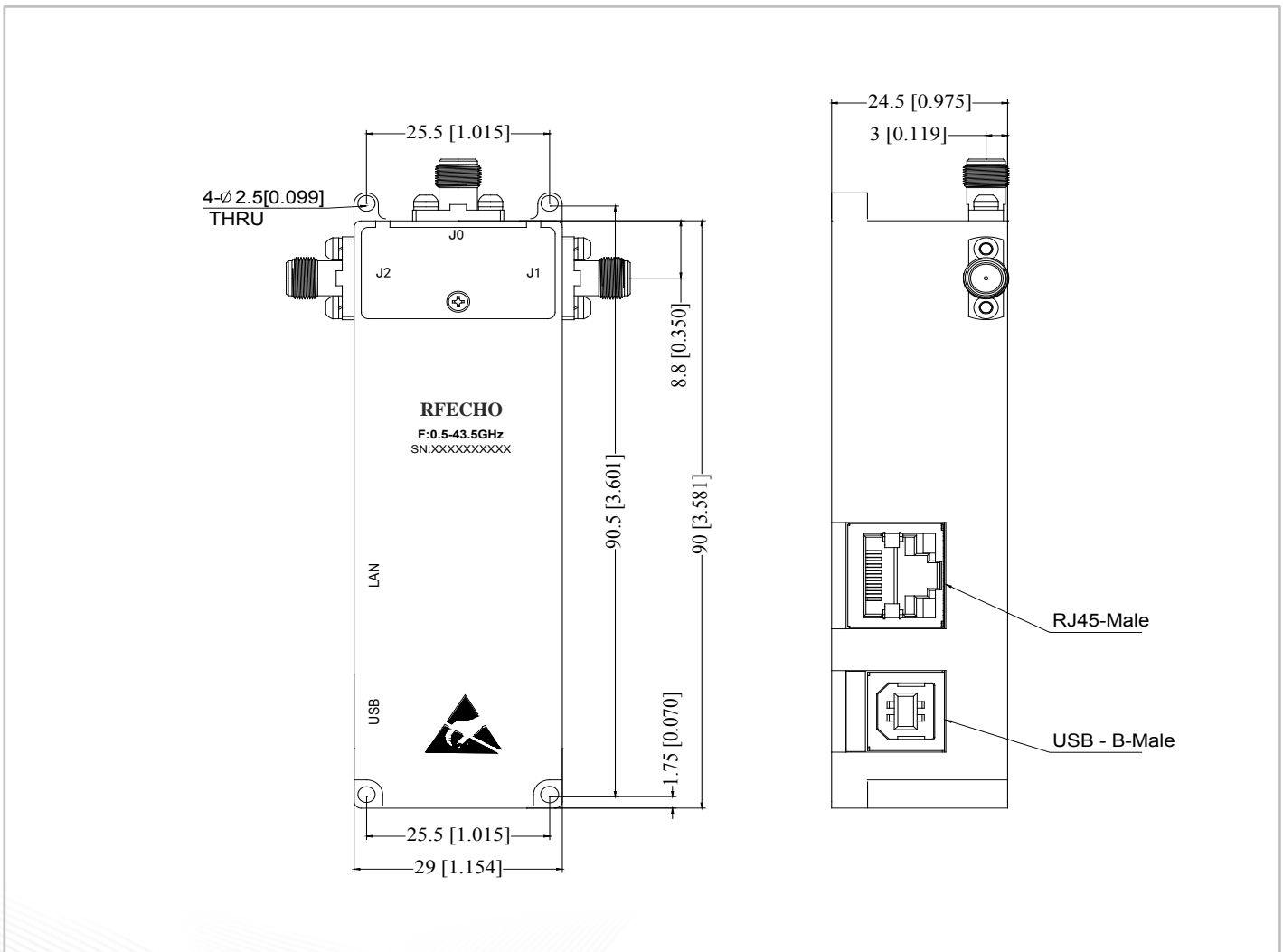
Part No.	ECCN	Description
DBSA0200504350D	EAR99	SP2T 0.5-43.5GHz PIN Diode Switch

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

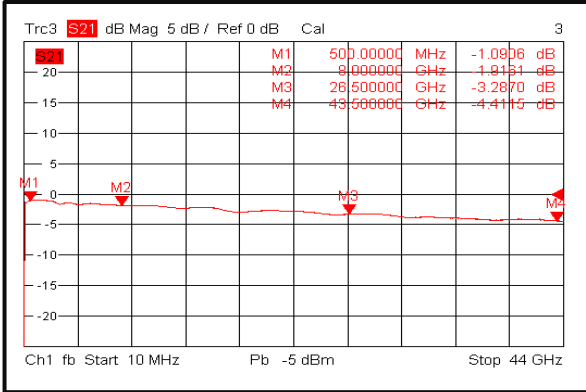
Outline Drawing:

All Dimensions in mm (inches) Tolerances ± 0.1 (0.004)

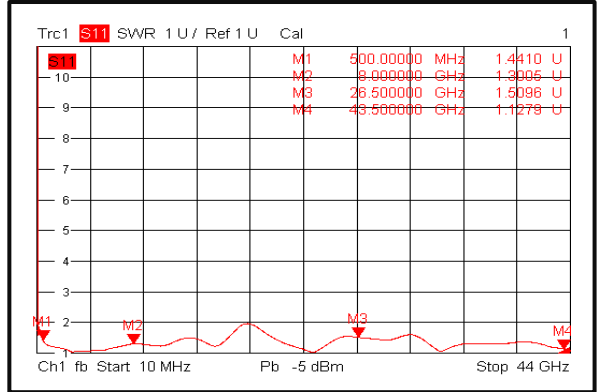




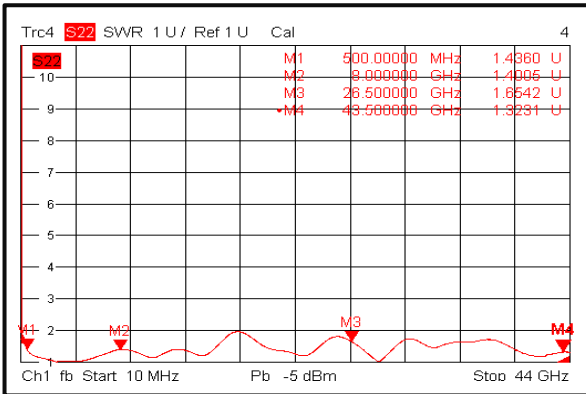
Insertion Loss @+25°C



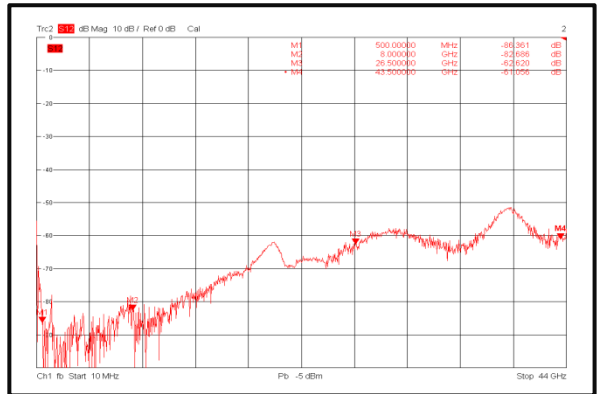
Input VSWR @+25°C



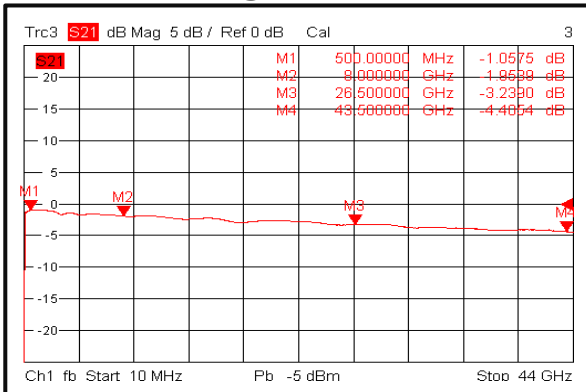
Output VSWR @+25°C



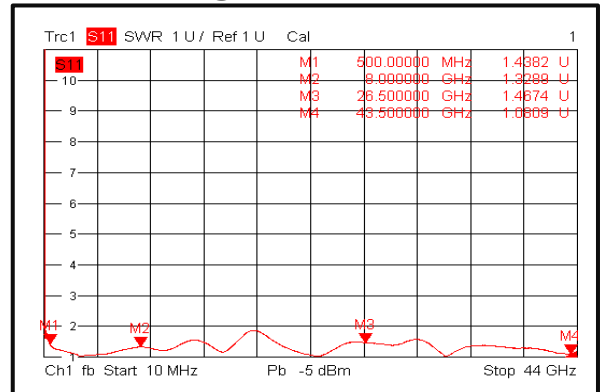
Isolation @+25°C



Insertion Loss @-40°C

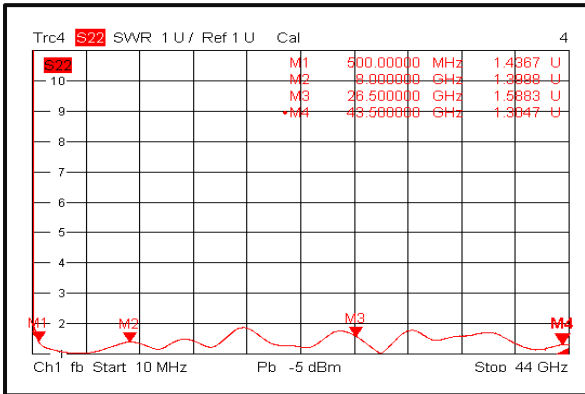


Input VSWR @-40°C

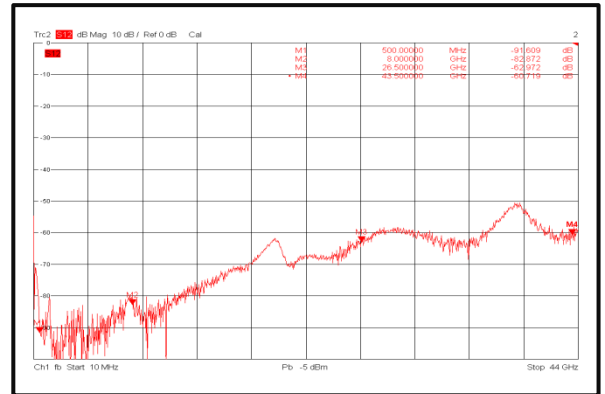




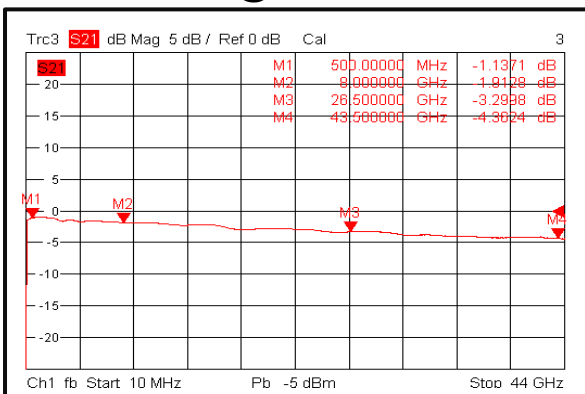
Output VSWR @-40°C



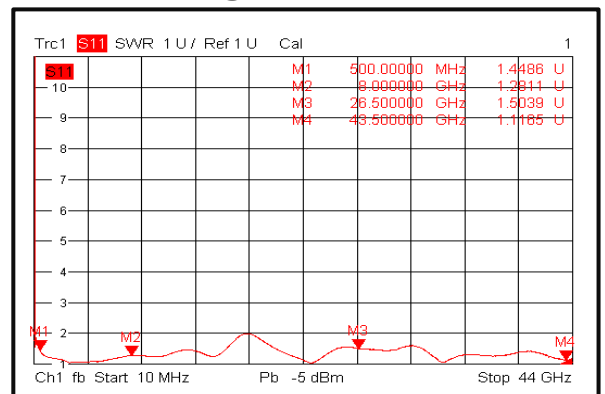
Isolation @-40°C



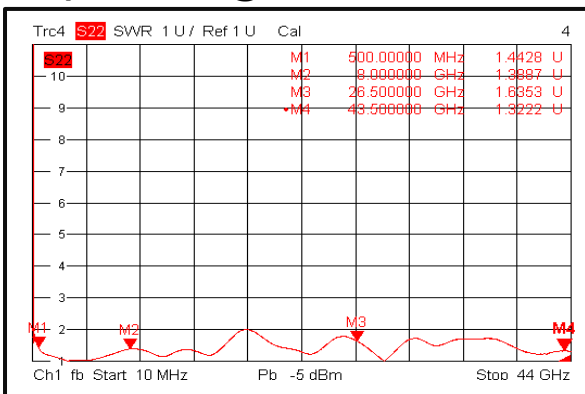
Insertion Loss @+85°C



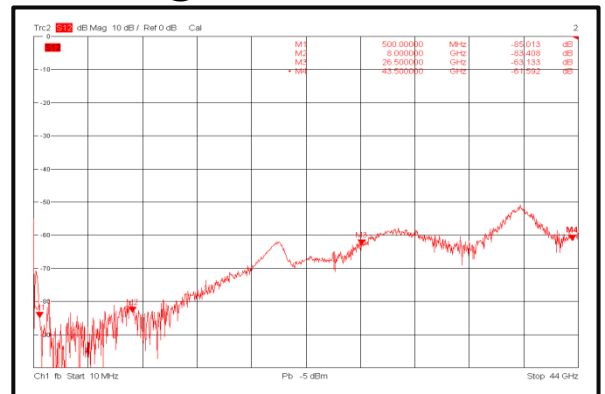
Input VSWR @+85°C



Output VSWR @+85°C

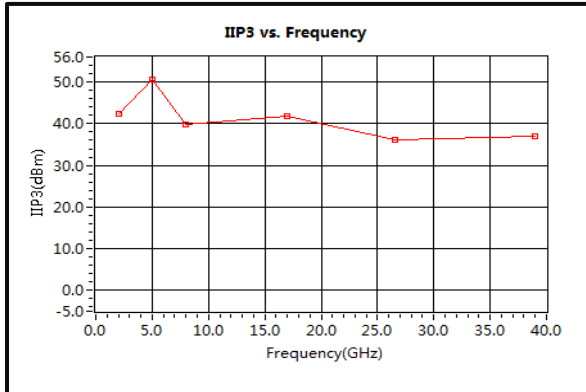


Isolation @+85°C

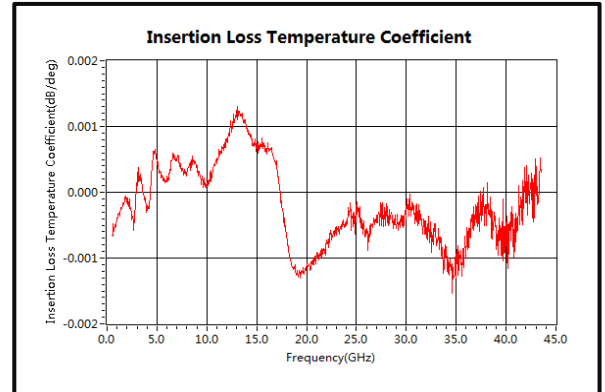




IIP3



Insertion Loss Temperature Coefficient



Insertion Loss vs. Temperature

