



USB Absorptive Coaxial SP8T Switch 2 - 50GHz

Features

- Ultra Wide Band Operation 2-50GHz
- USB Controlled and Powered.
- Low Insertion Loss and High Isolation
- Customization available upon request
- Control SW included.



Typical Applications

- Automated Test
- Aerospace and military applications

Parameters	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	2		18	18		40	40		50	GHz
Insertion Loss		5.5	6.5		7.5	8.5		10.5	11.0	dB
Insertion Loss Temperature Coefficient		0.003			0.003			0.003		dB/ ° C
Isolation	60	70		50	55		43	50		dB
Input VSWR		2.2	3.0		2.2	3.0		2.5	3.0	: 1
Output VSWR		2.2	3.0		2.2	3.0		2.5	3.0	: 1
RF Input Power (CW)			23			23			23	dBm
DC Power Dissipation		0.8			0.8			0.8		W
0.1dB Compression Point (P0.1dB)		23			23			23		dBm
IIP3		40			35			33		dBm
Weight	2.95 Max. (not including cable)									ounces
Impedance	50									Ω
Bias Current	200Max.									mA
Control Interface	USB 2.0 (Control Cable Included)									
Input / Output Connectors	2.4mm-Female									
Finish	Nickel Plated									
Material	Aluminum									



Ordering Information

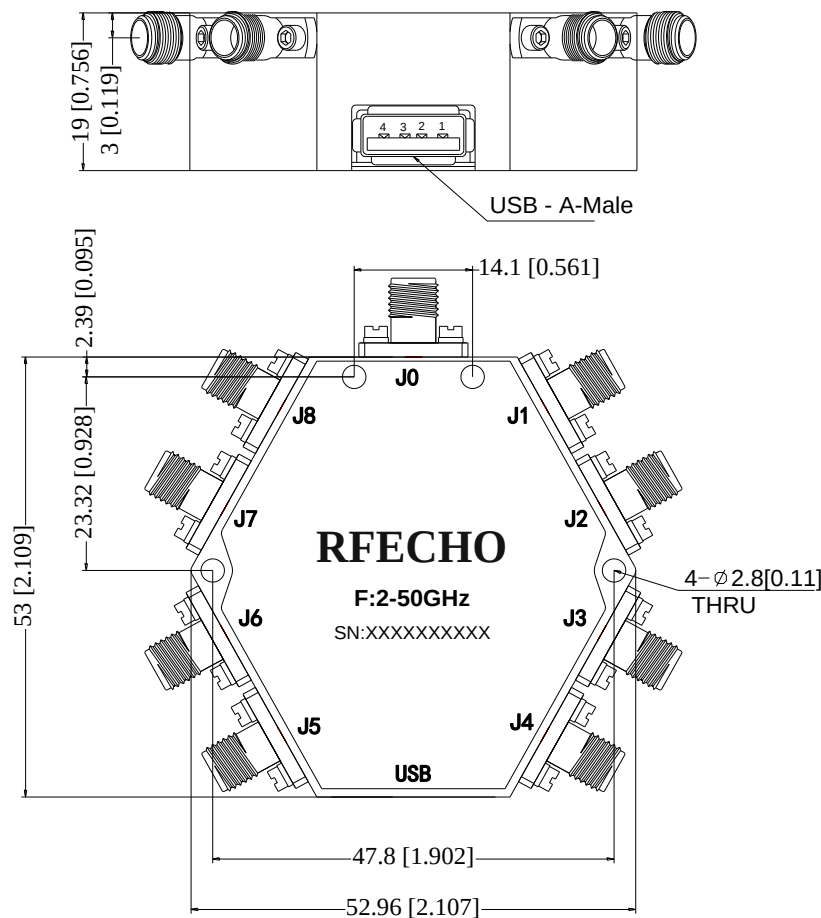
Part No.	ECCN	Description
DBSA0802005000B	EAR99	SP8T 2-50GHz PIN Diode Switch

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

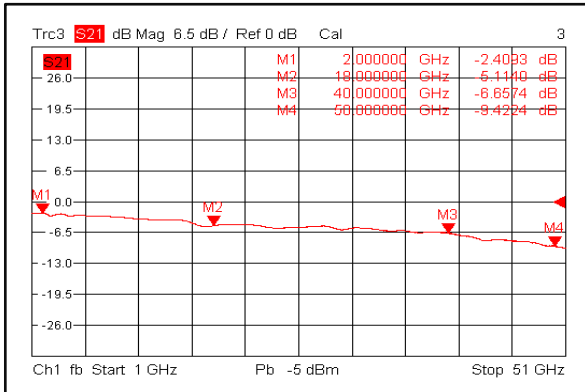
Outline Drawing:

All Dimensions in mm (inches)

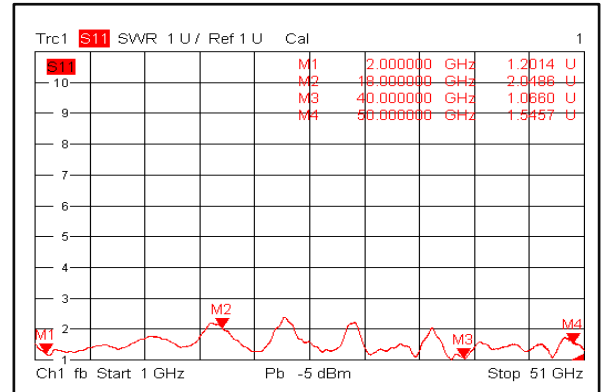




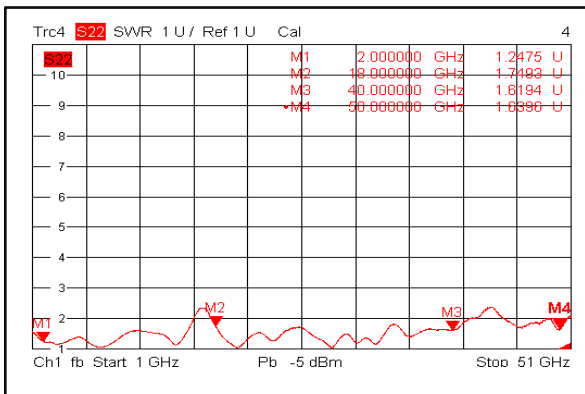
Insertion Loss@+25°C



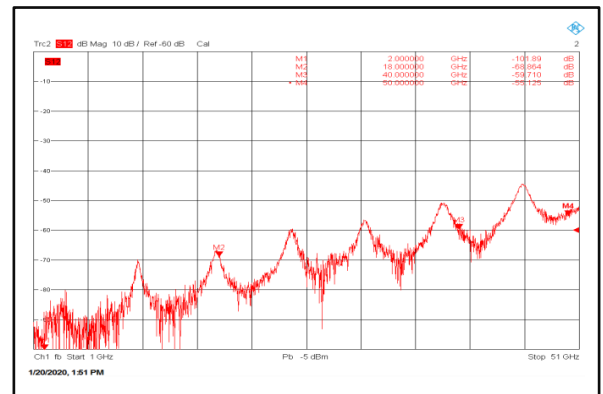
Input VSWR@+25°C



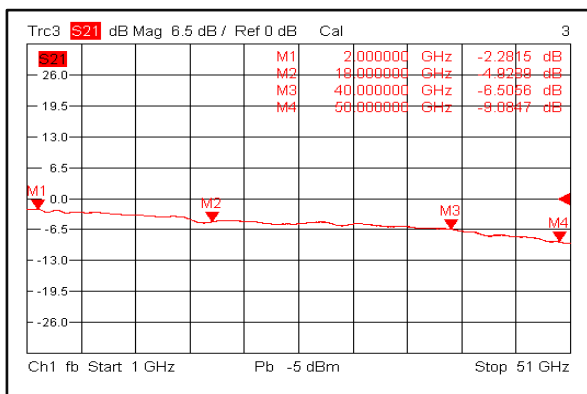
Output VSWR@+25°C



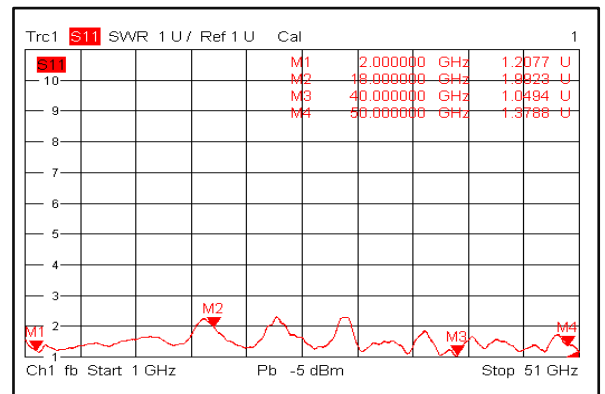
Isolation@+25°C



Insertion Loss@-40°C

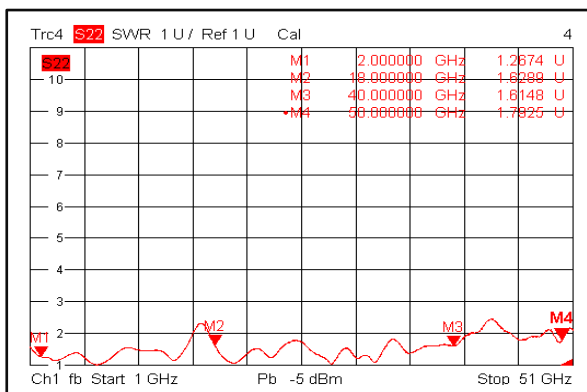


Input VSWR@-40°C

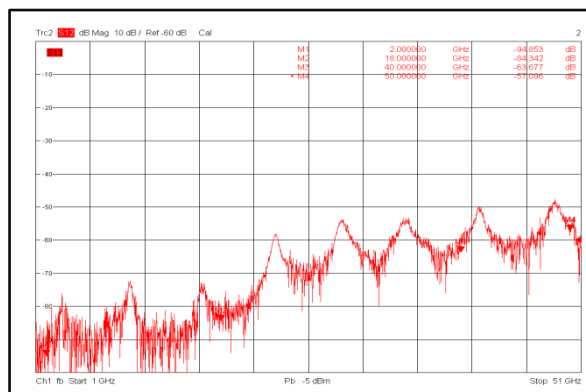




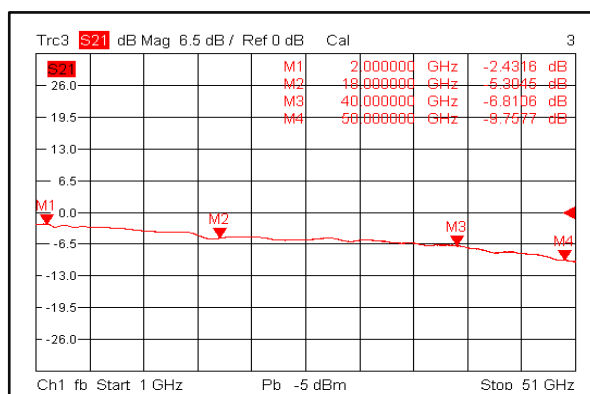
Output VSWR@-40°C



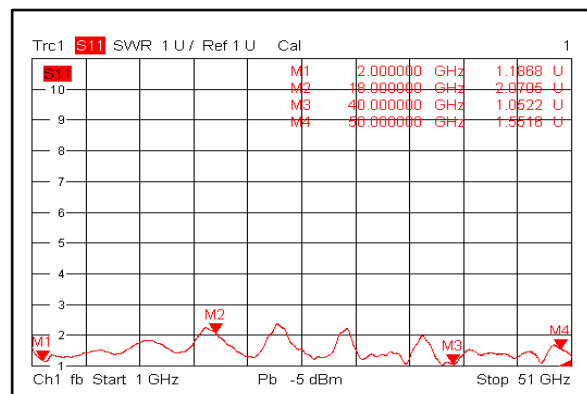
Isolation@-40°C



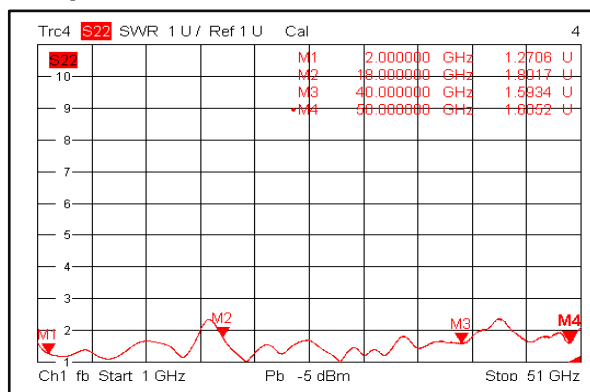
Insertion Loss@+85°C



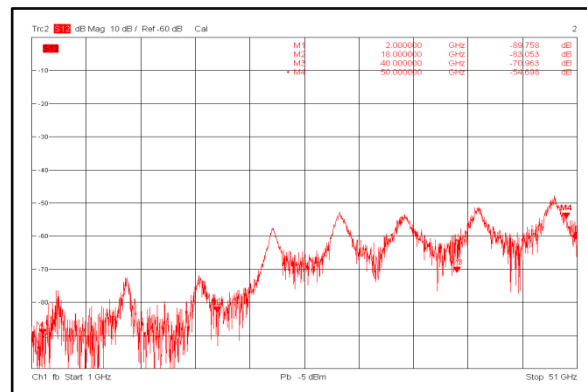
Input VSWR@+85°C



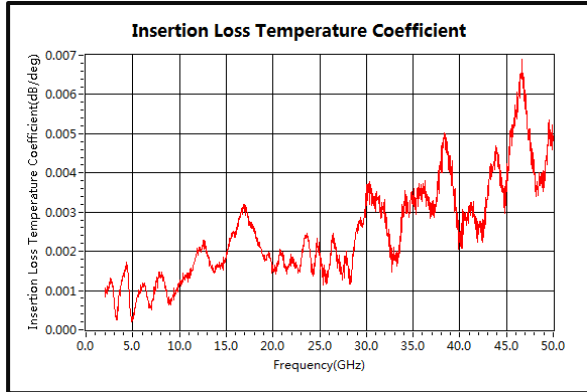
Output VSWR@+85°C



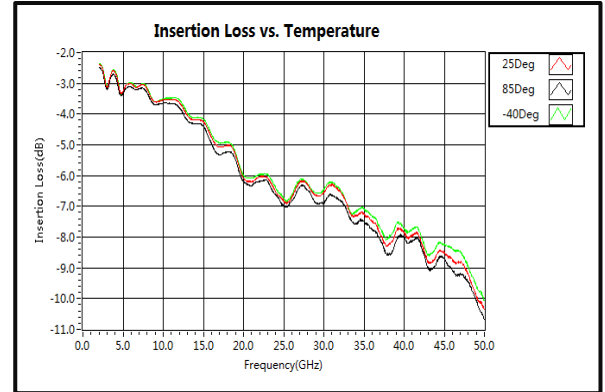
Isolation@+85°C



Insertion Loss Temperature Coefficient



Insertion Loss vs. Temperature



IIP3

