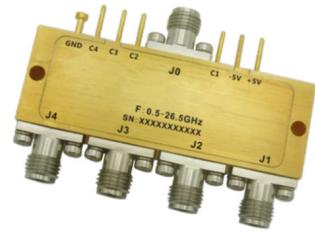


Absorptive Coaxial SP4T Switch 0.5 – 26.5GHz

Features

- Ultra Wide Band Operation 0.5-26.5GHz
- TTL compatible driver included
- Fast Switching Speed
- Low Insertion Loss and High Isolation



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		0.5-6			6-12			12-26.5		GHz
Insertion Loss		2.5	2.8		3.0	3.5		3.8	4.5	dB
Insertion Loss Temperature Coefficient		0.003			0.003			0.003		dB/ ° C
Isolation	60	65		50	55		45	50		dB
Input VSWR		1.8	2.3		1.6	2.0		1.8	2.0	: 1
Output VSWR		1.8	2.3		1.6	2.0		1.8	2.0	: 1
RF Input Power			23			23			23	dBm
DC Power Dissipation		0.9			0.9			0.9		W
0.1dB Compression Point (P0.1dB)		23			23			23		dBm
IIP3		40			45			42		dBm
Switching Speed					100 Max.					ns
Weight					1.5 Max.					Ounces
Impedance					50					Ω
Bias Current (+5V/-5V)					160/50 Max.					mA
Input / Output Connectors					SMA-Female					
Finish					Gold Plated					
Material					Aluminum					
Sealing					Hermetically Sealed (Optional)					



Absolute Maximum Ratings

Biasing	+5V±10%/-5V±10%
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Ordering Information

Part No.	Description
DBSA0400502600A	SP4T 0.5-26.5GHz PIN Diode Switch

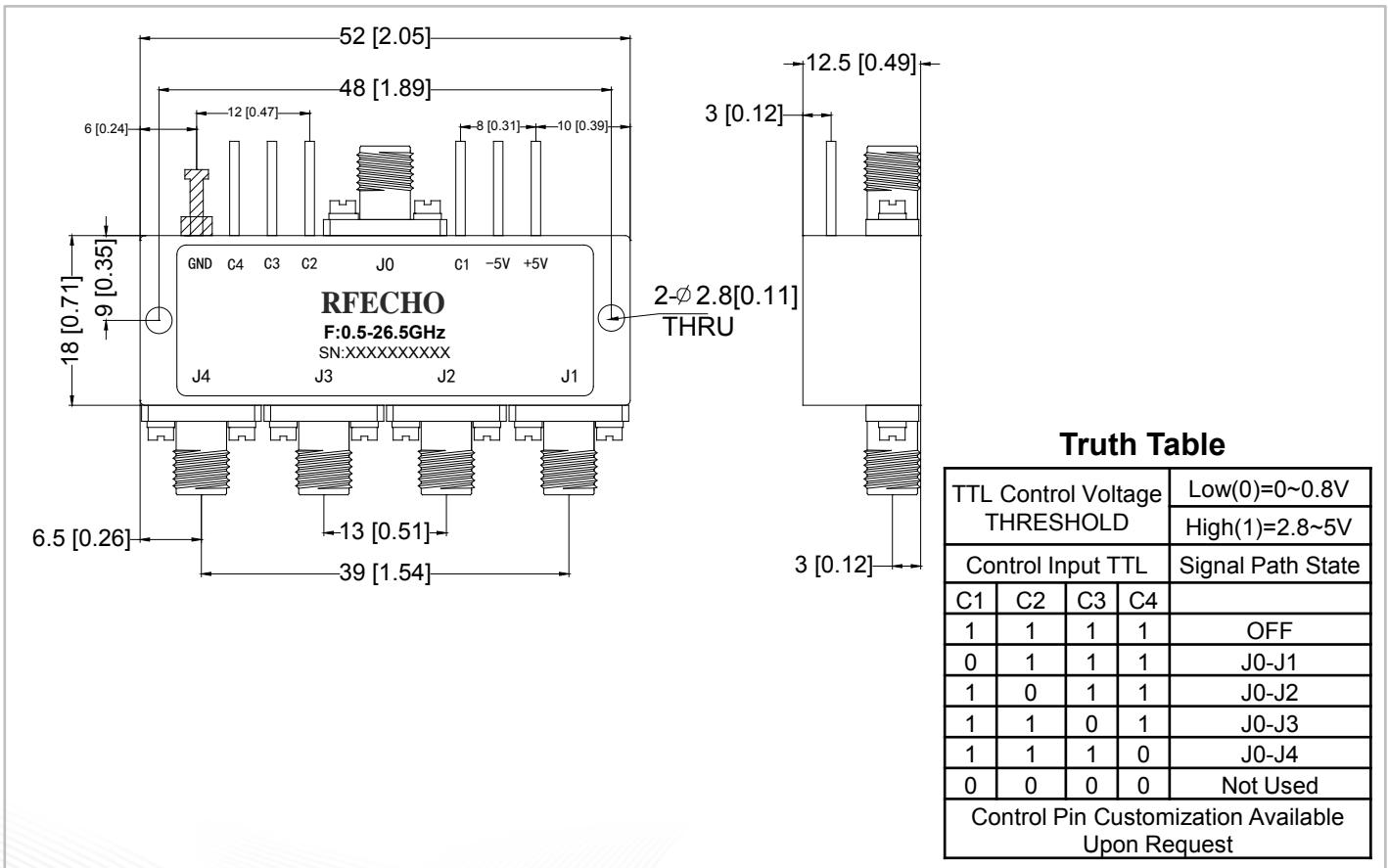
Environmental Specifications

Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment) 60,000 ft. 1.0psi min (Hermetically Sealed Uncontrolled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions

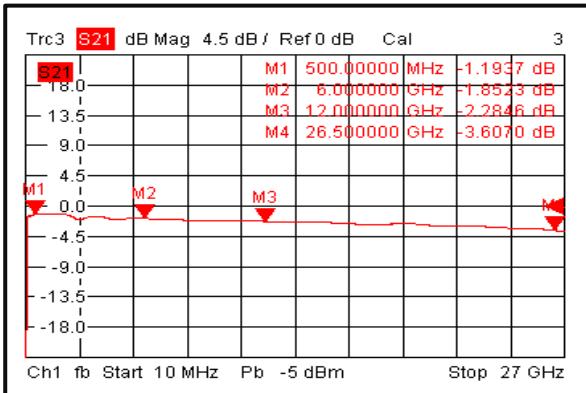
Outline Drawing:

All Dimensions in mm (inches)

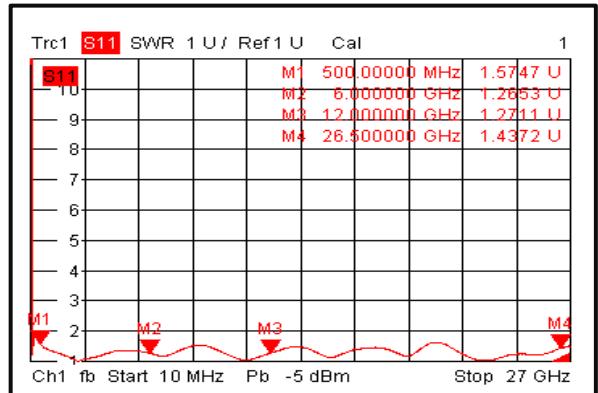
Housing Tolerances ± 0.1 (0.004)



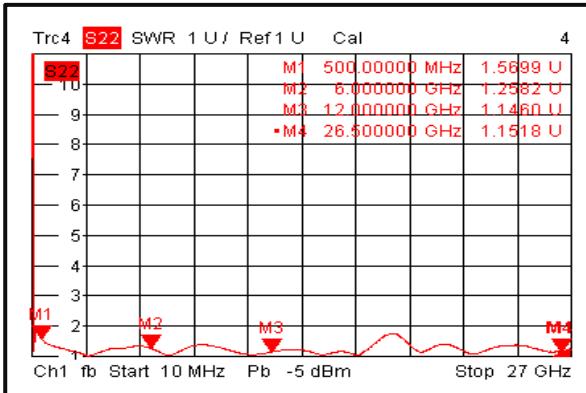
Insertion Loss @+25°C



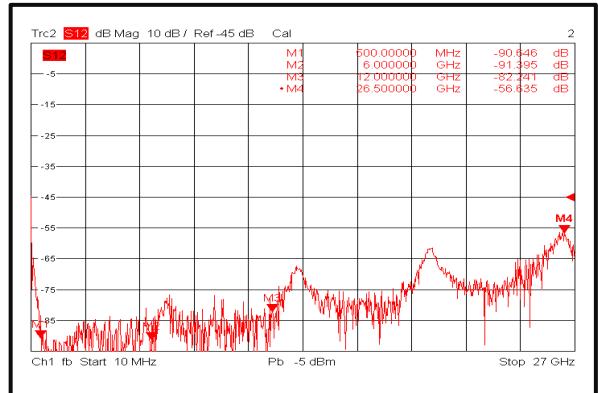
Input VSWR @+25°C



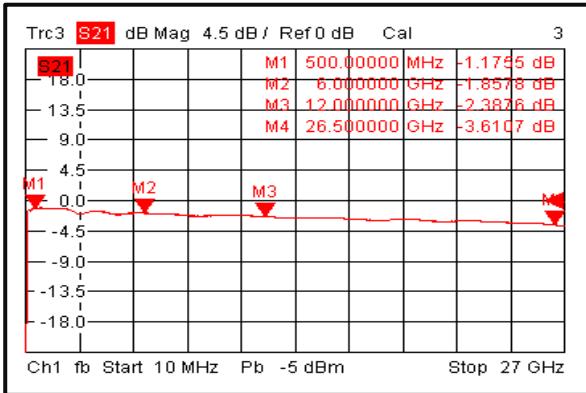
Output VSWR @+25°C



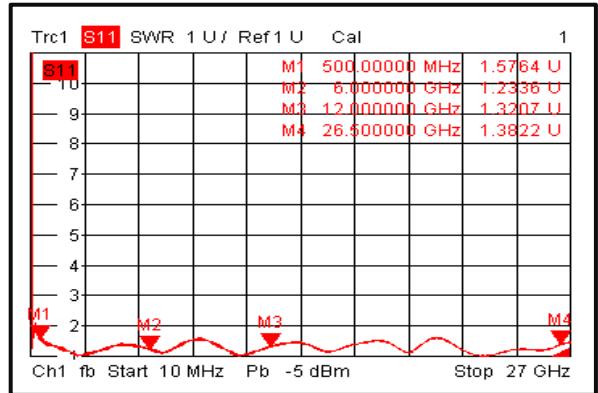
Isolation @+25°C



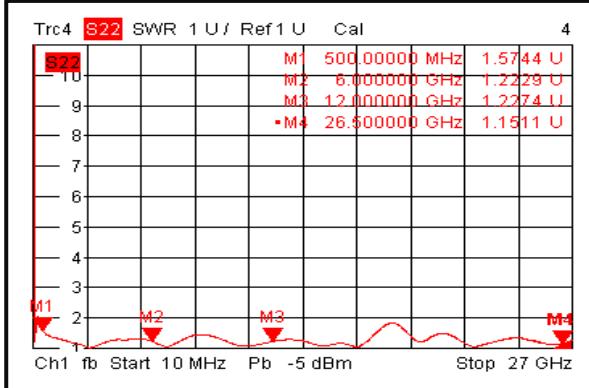
Insertion Loss @-40°C



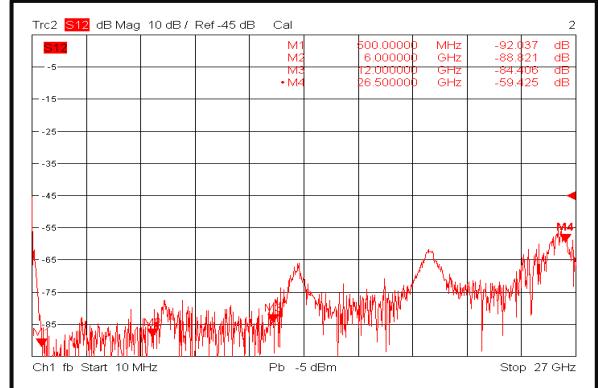
Input VSWR @-40°C



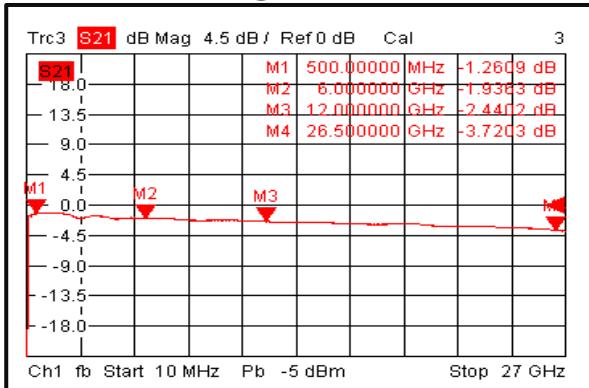
Output VSWR @-40°C



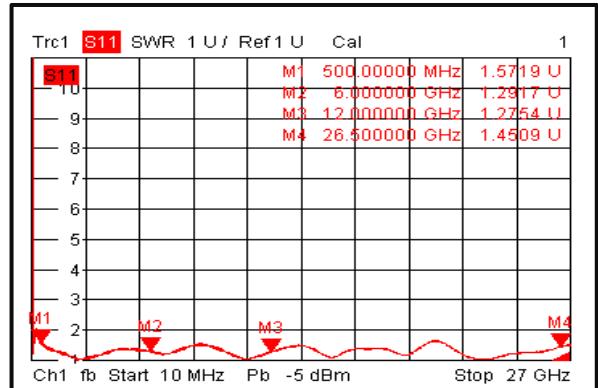
Isolation @-40°C



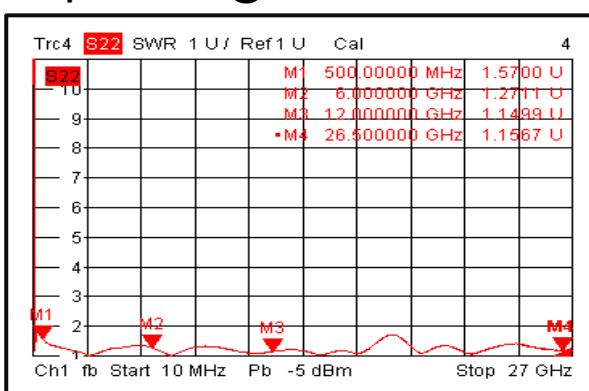
Insertion Loss @+85°C



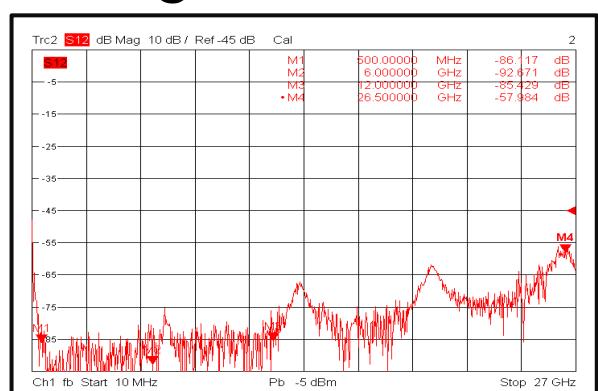
Input VSWR @+85°C



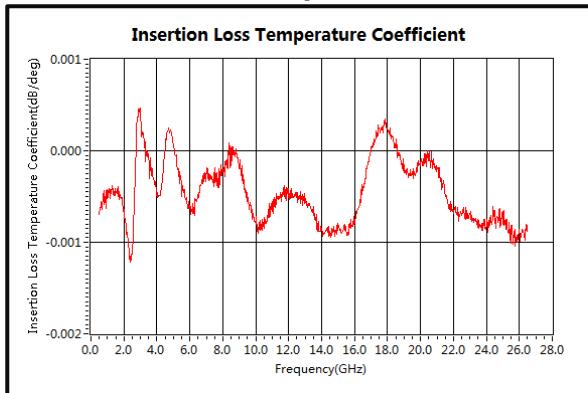
Output VSWR @+85°C



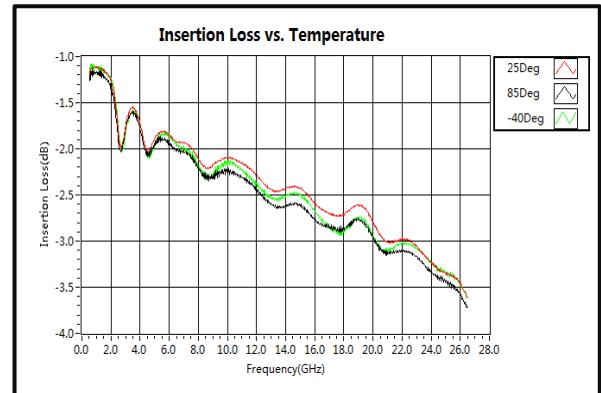
Isolation @+85°C



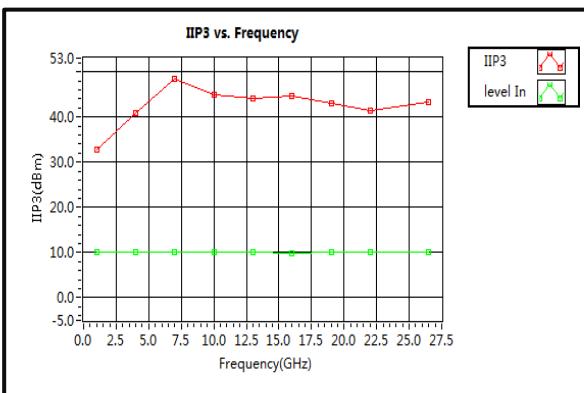
Insertion Loss Temperature Coefficient



Insertion Loss vs. Temperature



IIP3



Switching Speed



Switching Speed

