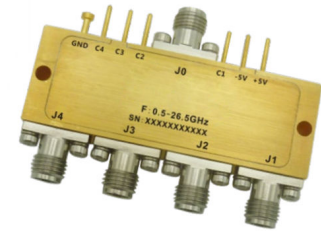




# Absorptive Coaxial SP4T Switch 0.5 – 26.5GHz

## 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

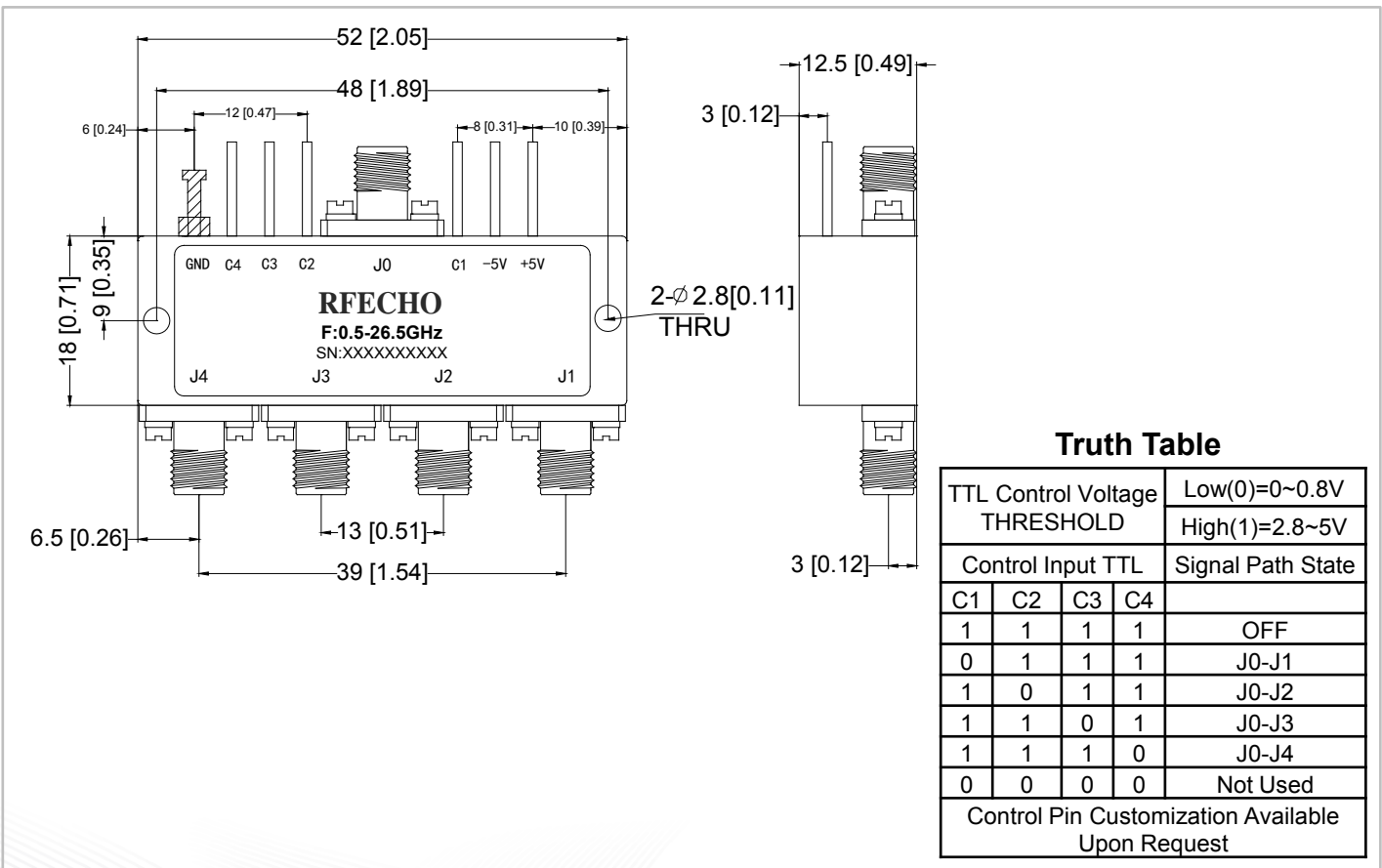
Biassing	+5V±10%/-5V±10%
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### Ordering Information

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

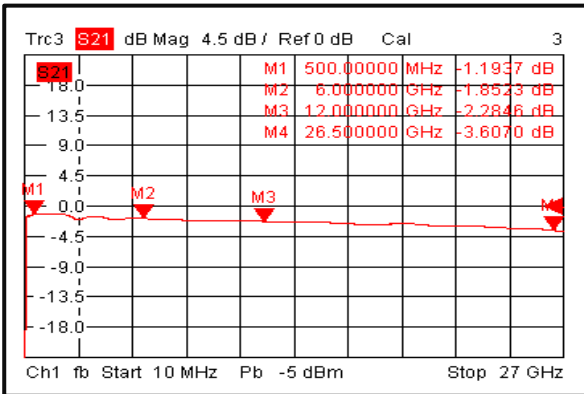
### Outline Drawing:

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

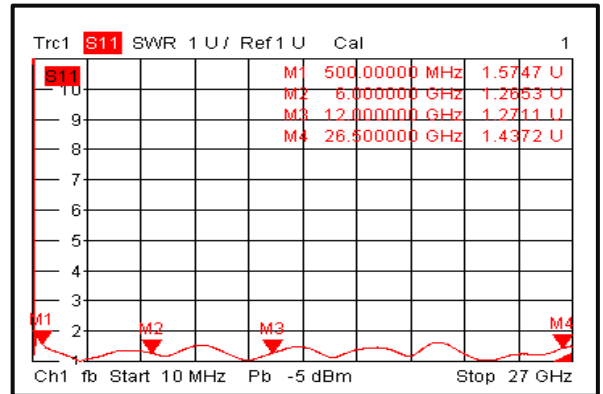




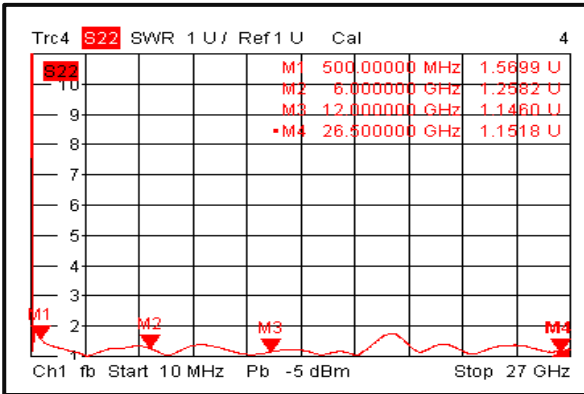
### Insertion Loss @+25°C



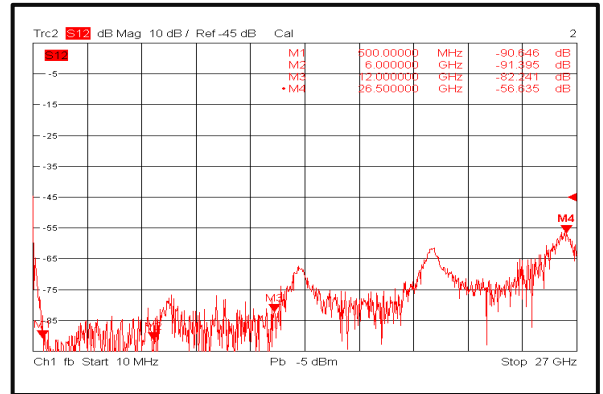
### Input VSWR @+25°C



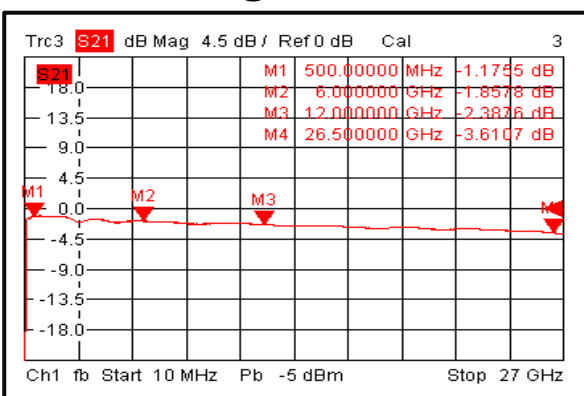
### Output VSWR @+25°C



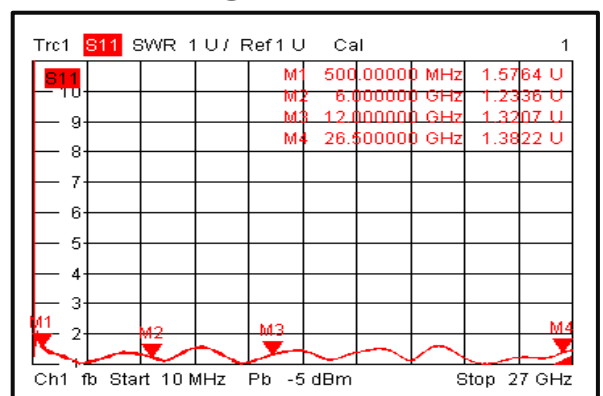
### Isolation @+25°C



### Insertion Loss @-40°C

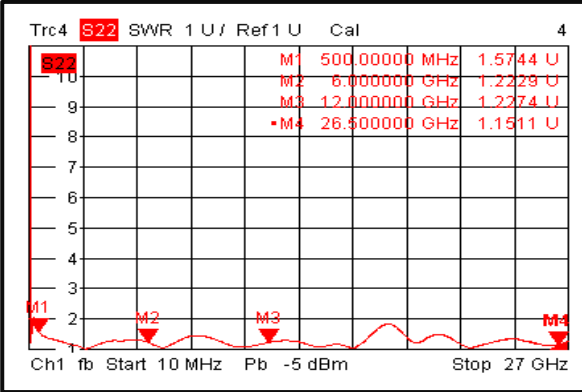


### Input VSWR @-40°C

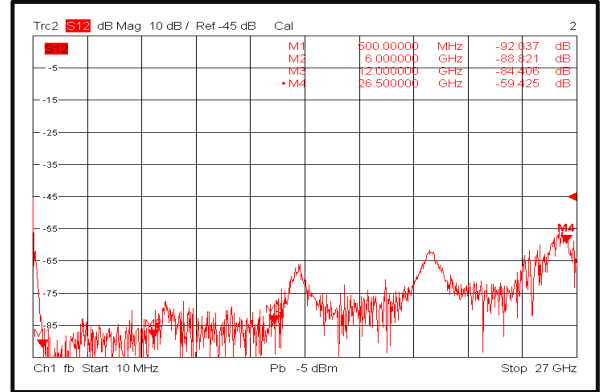




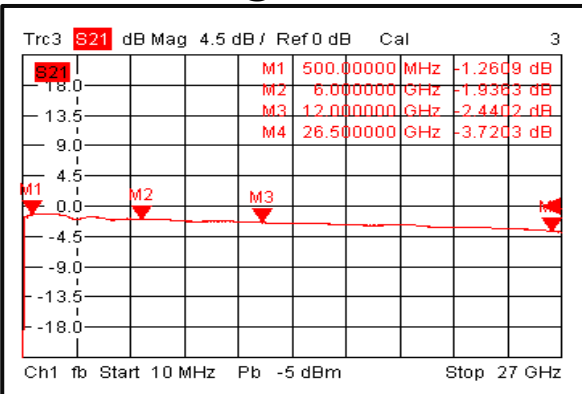
### Output VSWR @-40°C



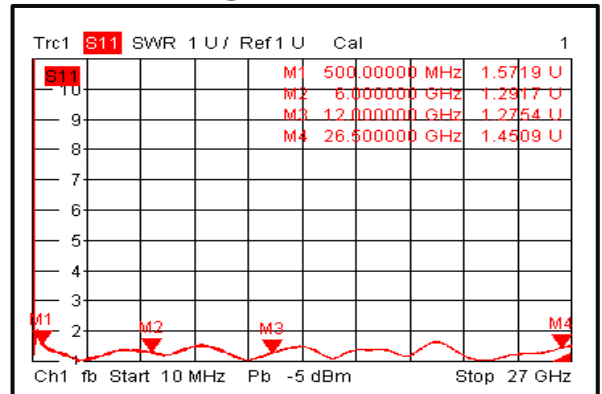
### Isolation @-40°C



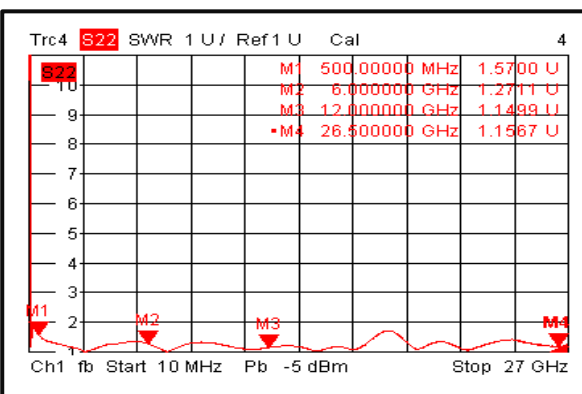
### Insertion Loss @+85°C



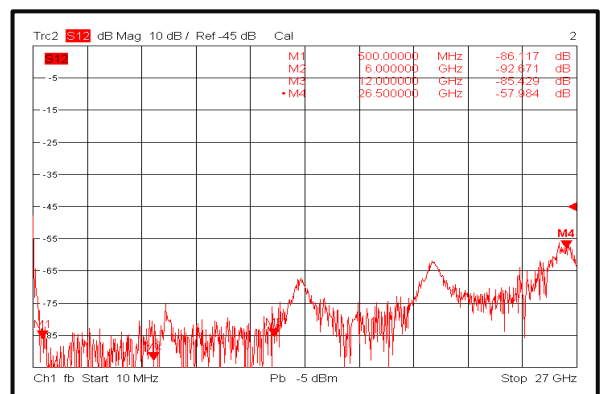
### Input VSWR @+85°C



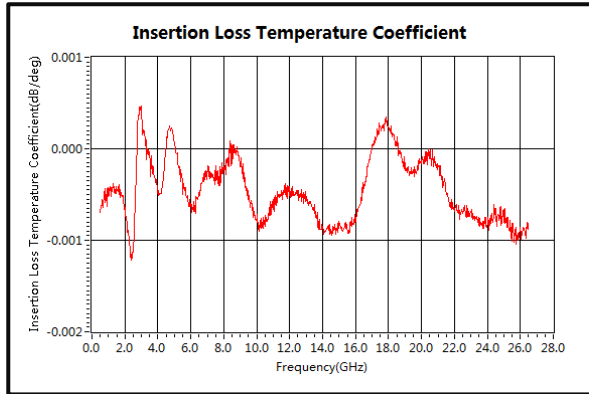
### Output VSWR @+85°C



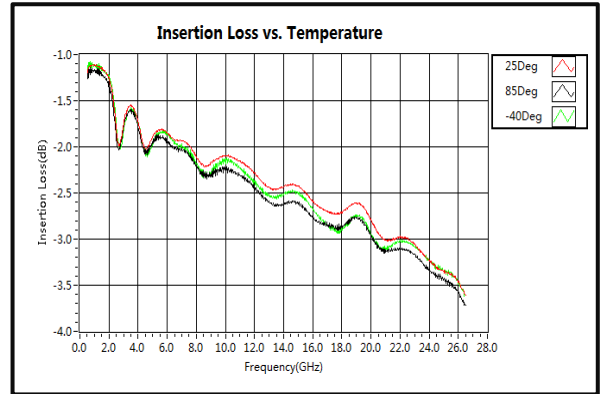
### Isolation @+85°C



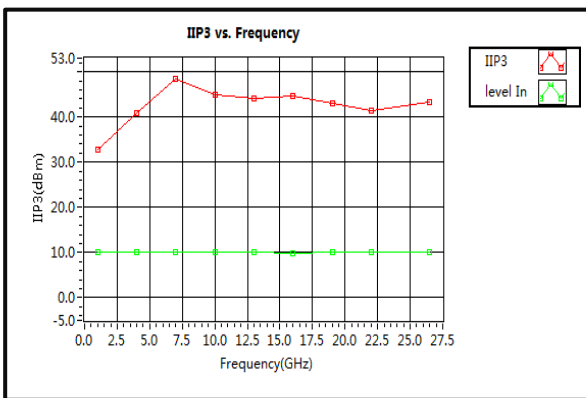
### Insertion Loss Temperature Coefficient



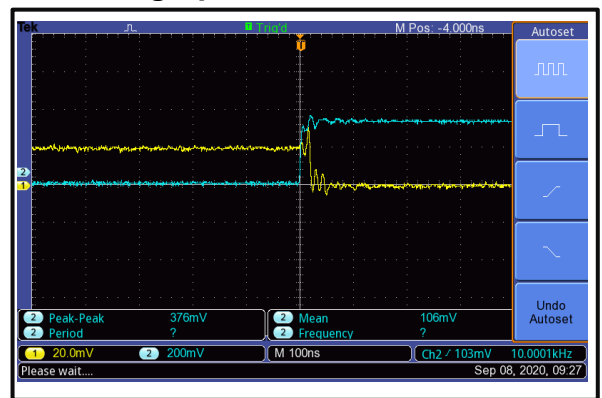
### Insertion Loss vs. Temperature



### IIP3



### Switching Speed



### Switching Speed

