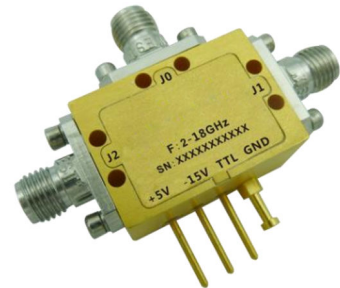


# Absorptive 2-18GHz Coaxial SP2T Switch

## Features

- Wide Band Operation 2-18GHz
- TTL compatible driver included
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Customization available upon request



## 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	2-8			8-12			12-18			GHz
Insertion Loss		1.2	1.5		1.6	2.0		2.2	2.6	dB
Insertion Loss Temperature Coefficient		0.003			0.003			0.003		dB/ °C
Isolation	70	75		70	75		60	65		dB
Input VSWR		1.4	1.5		1.5	2.0		1.6	2.0	: 1
Output VSWR		1.4	1.5		1.5	2.0		1.6	2.0	: 1
RF Input power (CW)			30			30			30	dBm
DC Power Dissipation		0.5			0.5			0.5		W
0.1dB Compression Point ( P0.1dB )		30			30			30		dBm
IIP3		50			50			50		dBm
Switching Speed			100			100			100	ns
Weight	0.71									ounces
Impedance	50									Ω
Bias Current( +5V/ -15V )	80/50									mA
Input / Output Connectors	SMA-Female									
Finish	Gold Plated									
Material	Aluminum									
Sealing	Hermetically Sealed ( optional )									



### Absolute Maximum Ratings

Biasing	+5V ± 10%/-15V ± 10%
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### Environmental Specifications

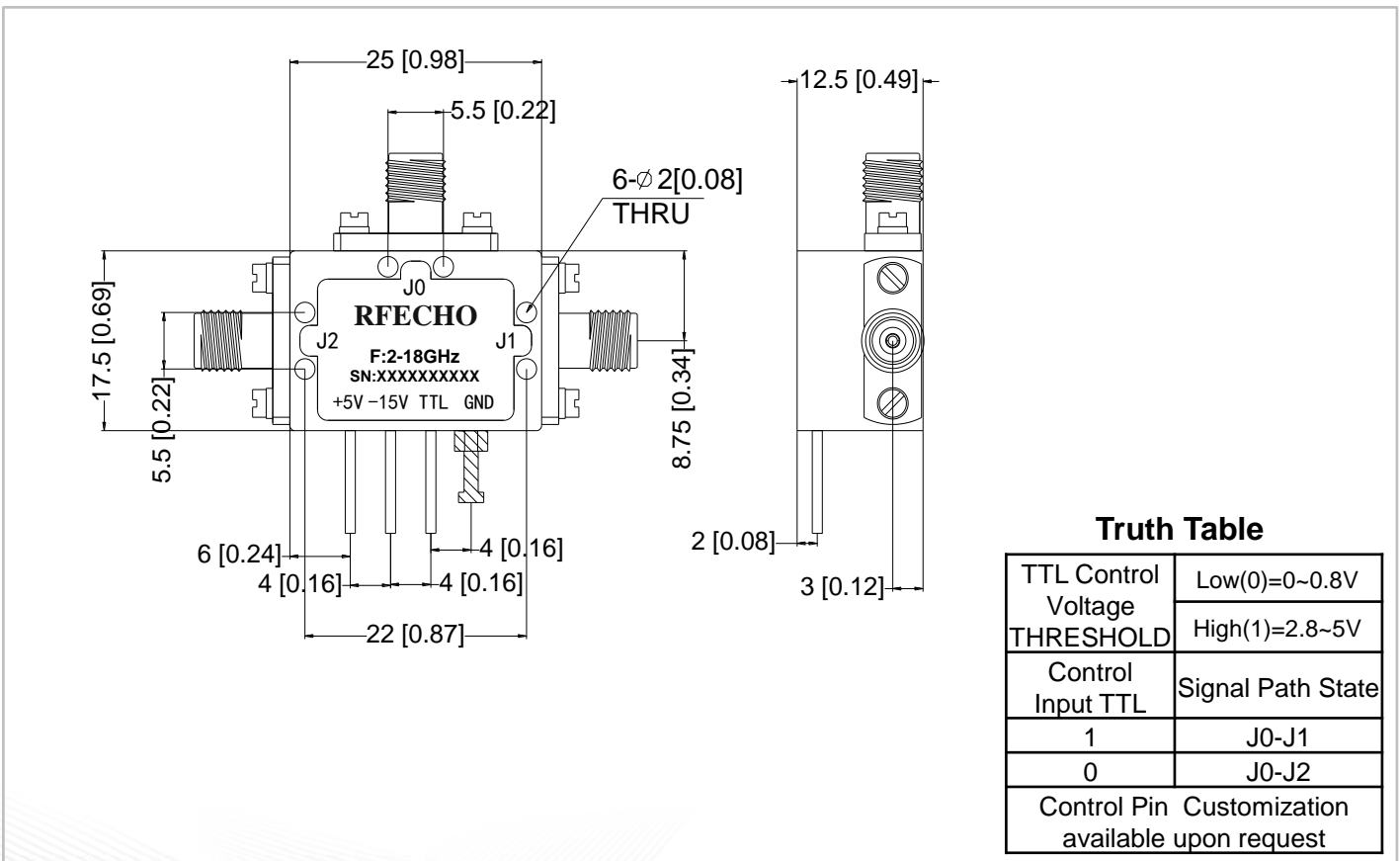
Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH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

### Ordering Information

Part No.	Description
DBSA0202001800J	SP2T 2-18GHz PIN Diode Switch

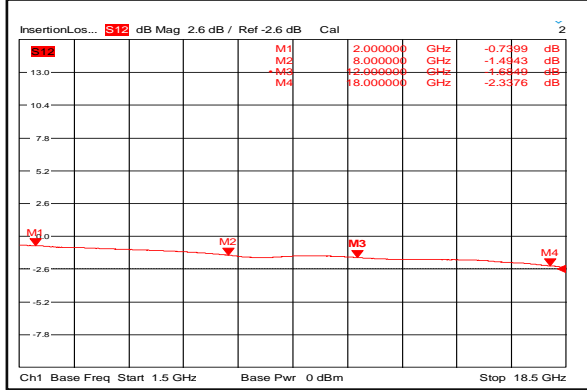
### Outline Drawing:

All Dimensions in mm (inches)

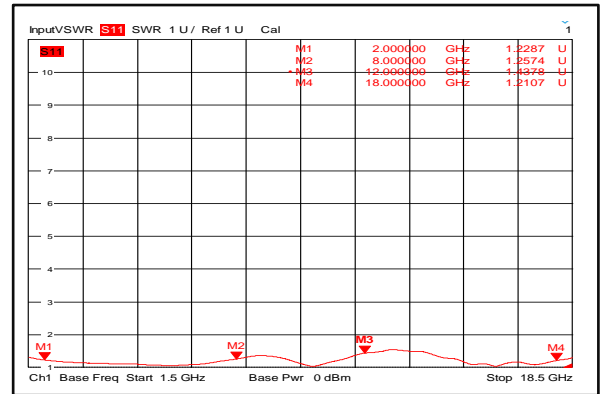




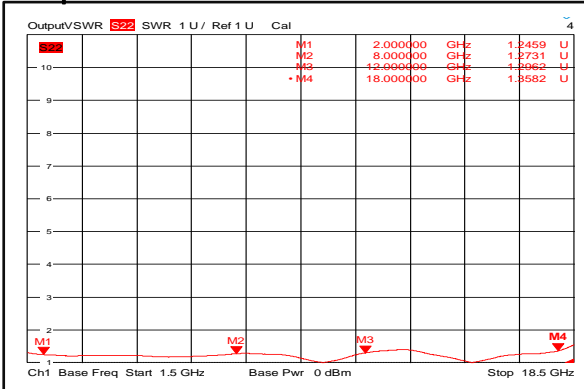
### Insertion Loss



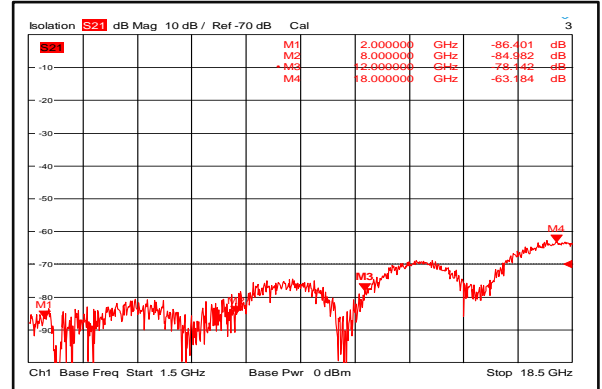
### Input VSWR



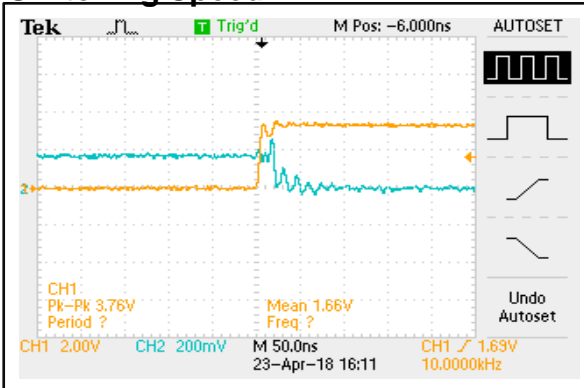
### Output VSWR



### Isolation



### Switching Speed



### Switching Speed

