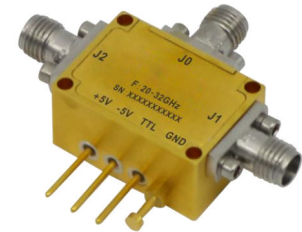




# Reflective 20-32GHz Coaxial SP2T Switch

## Features

- Wide Band Operation 20-32GHz
- 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.	Units
Frequency Range	20		32	GHz
Insertion Loss		2.3	3	dB
Insertion Loss Temperature Coefficient		0.003		dB/ °C
Isolation	50	55		dB
Input VSWR		1.8	2	: 1
Output VSWR		1.8	2	: 1
RF Input power			23	dBm
DC Power Dissipation (CW)		0.5		W
0.1dB Compression Point( P0.1dB )		23		dBm
IIP3		45		dBm
Switching Speed			50	ns
Weight		0.35		ounces
Impedance		50		$\Omega$
Bias Current(+5V/-5V)		120/50		mA
Input / Output Connectors		2.92mm-Female		
Finishing		Gold Plating		
Material		Aluminum		
Sealing		Hermetically Sealed (optional)		



### Absolute Maximum Ratings

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

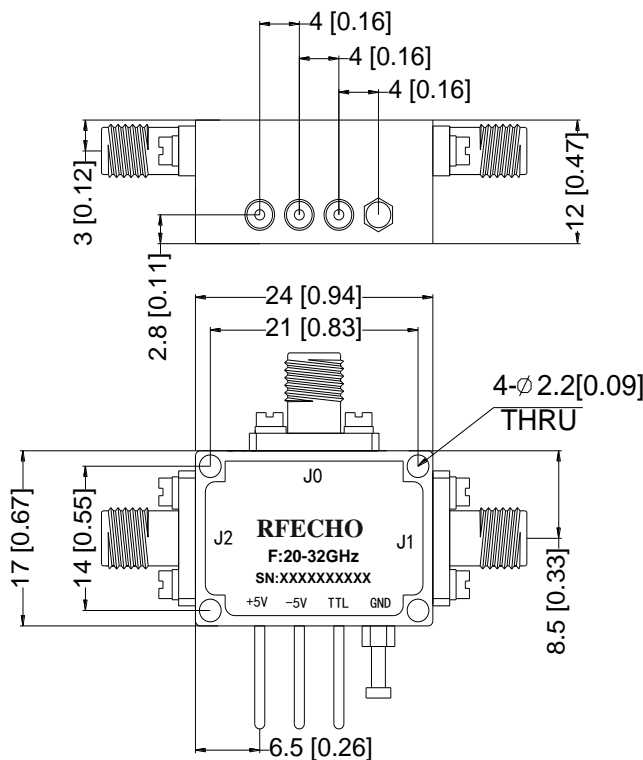
Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH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

### Ordering Information

Part No.	Description
DBSR0220003200A	SP2T 20-32GHz PIN Diode Switch

### Outline Drawing:

All Dimensions in mm (inches)

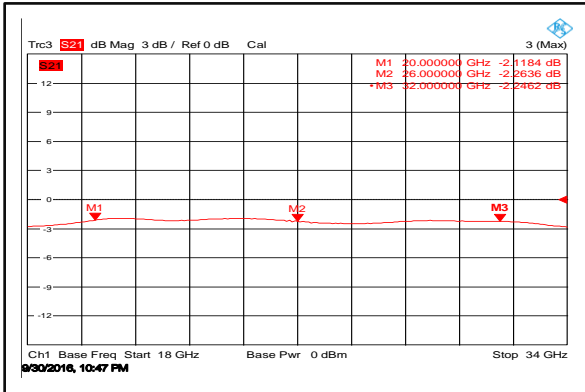


### Truth Table

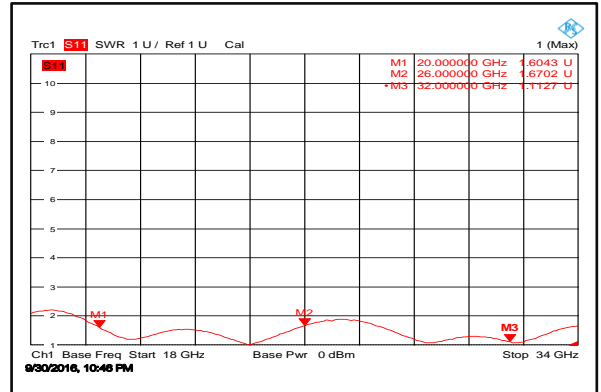
TTL Control Voltage THRESHOLD	Low(0)=0~0.8V
	High(1)=2.8~5V
Control Input TTL	Signal Path State
0	J0-J2
1	J0-J1
Control Pin Customization available upon request	



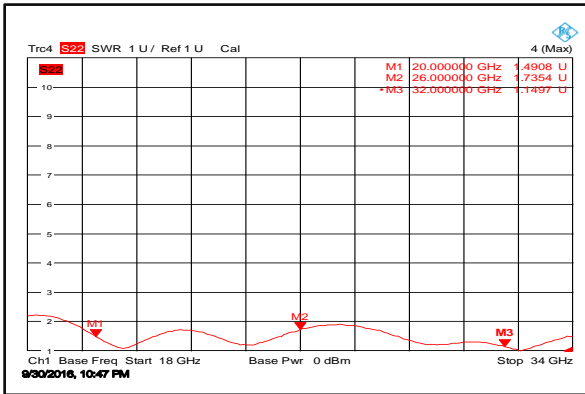
### Insertion Loss



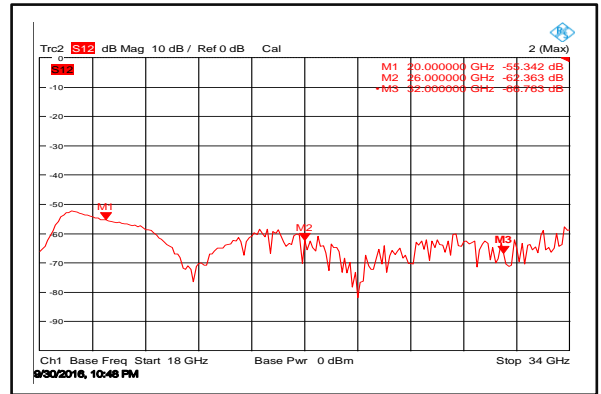
### Input VSWR



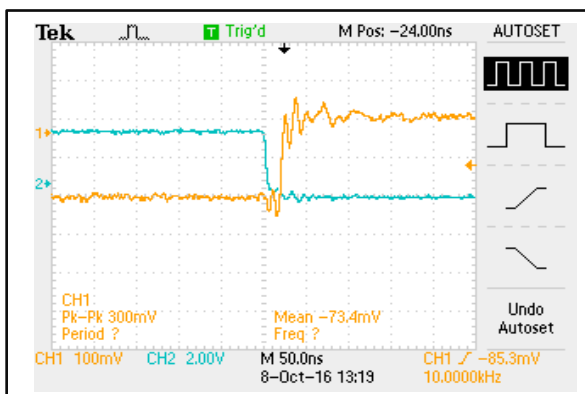
### Output VSWR



### Isolation



### Turn on Switching Speed



### Turn off Switching Speed

