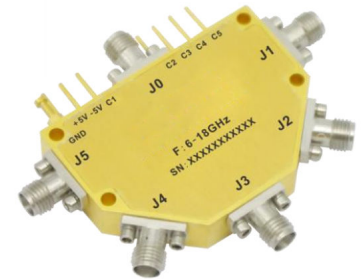




# Reflection 6-18GHz Coaxial SP5T Switch

## Features

- Wide Band Operation 6-18GHz
- 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.	Units
Frequency Range	6-12		12-18				GHz
Insertion Loss		1.8	2.5		2.5	3.0	dB
Insertion Loss Temperature Coefficient		0.003			0.003		dB/ °C
Isolation	60	75		60	75		dB
Input VSWR		1.3	1.5		1.5	1.7	: 1
Output VSWR		1.3	1.5		1.5	1.7	: 1
RF Input power			30			30	dBm
DC Power Dissipation(CW)		1			1		W
0.1dB Compression Point ( P0.1dB )		30			30		dBm
IIP3		55			55		dBm
Switching Speed		50	100		50	100	ns
Weight	1.56						Ounces
Impedance	50						Ω
Bias Current ( +5V / -5V )	200/50						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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### Environmental Specifications

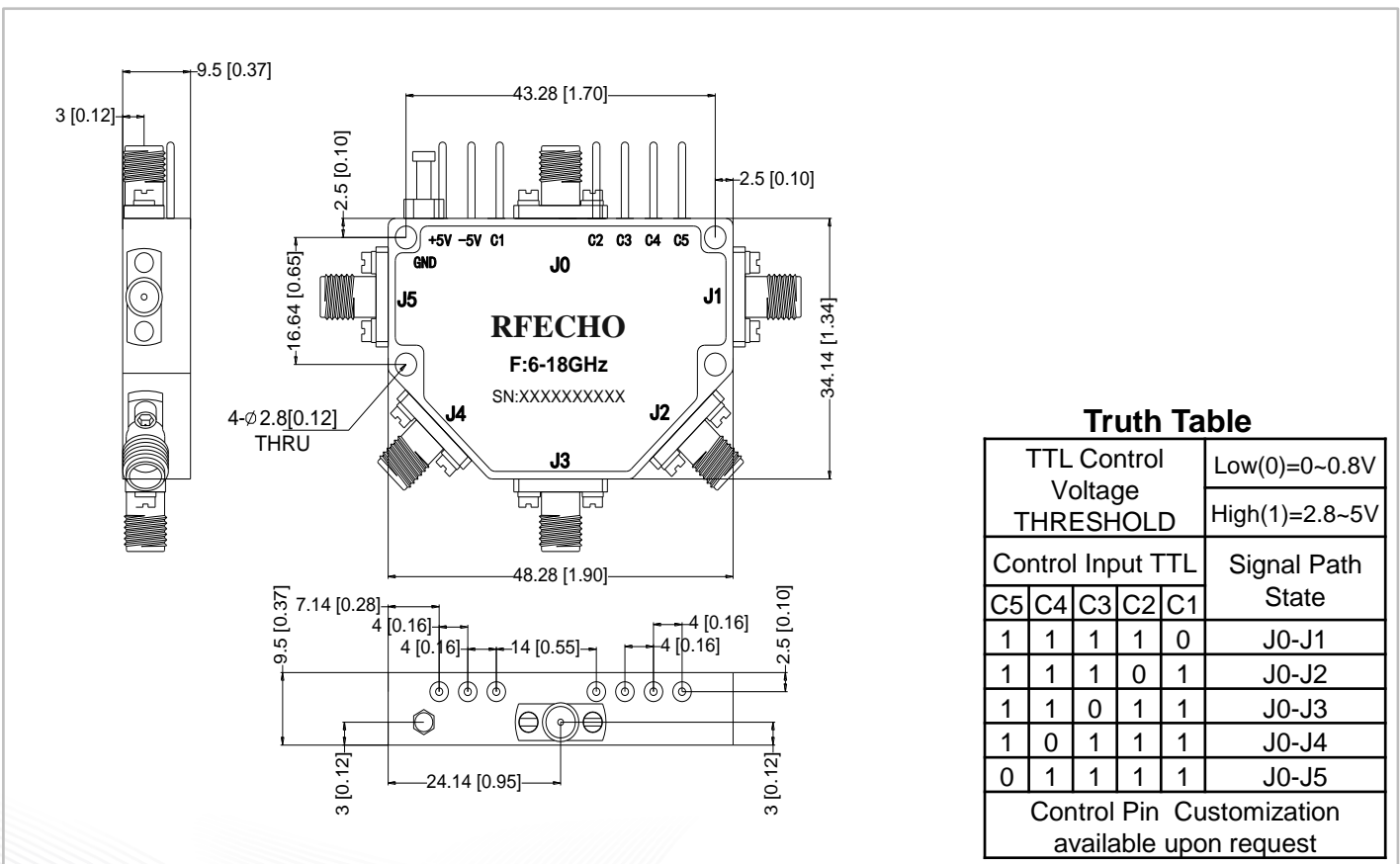
Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH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

### Ordering Information

Part No.	Description
DBSR0506001800A	SP5T 6-18GHz PIN Diode Switch

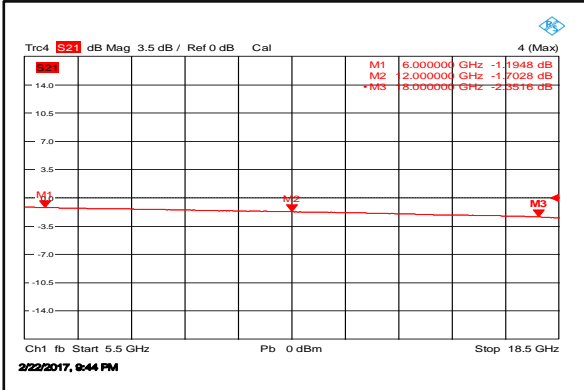
### Outline Drawing:

All Dimensions in mm (inches)

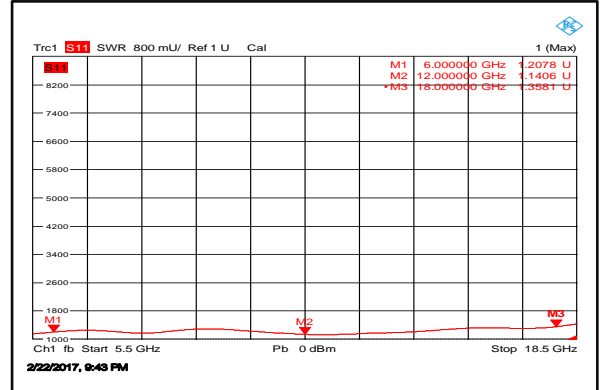




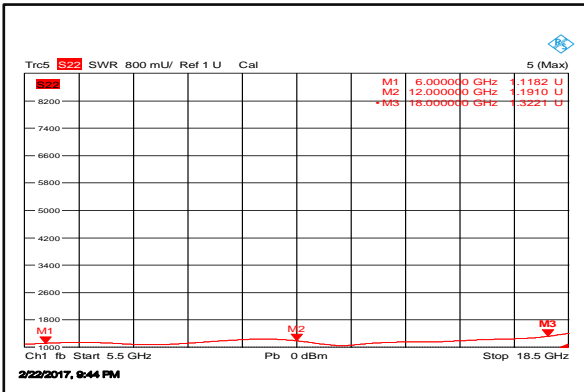
### Insertion Loss



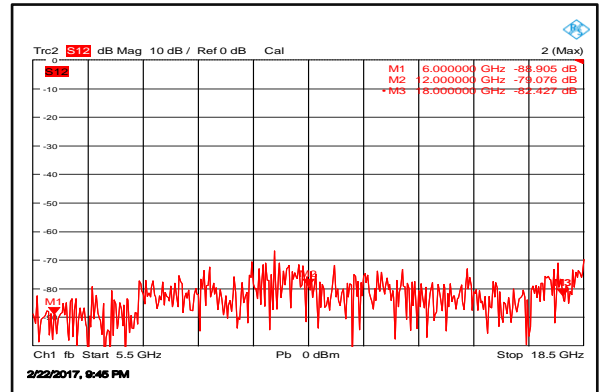
### Input VSWR



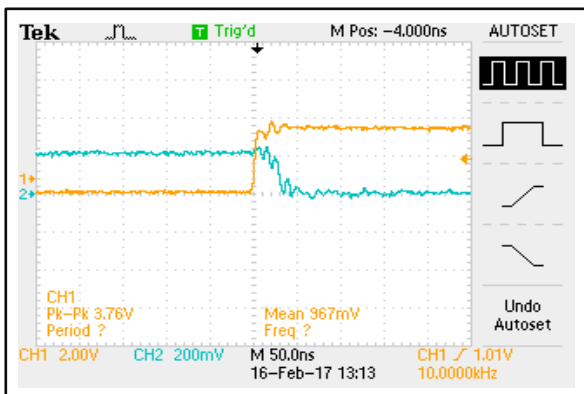
### Output VSWR



### Isolation



### Turn on Switching Speed



### Turn off Switching Speed

