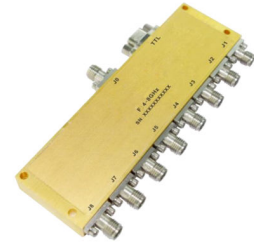




# Reflective 4-8GHz Coaxial SP8T Switch

## Features

- Wide Band Operation 4-8GHz
- TTL compatible driver include
- 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		4~8		GHz
Insertion Loss		1.6	2.0	dB
Insertion Loss Temperature Coefficient		0.003		dB/ °C
Isolation	65	75		dB
Input VSWR		1.4	1.6	: 1
Output VSWR		1.4	1.6	: 1
RF Input power (CW)	1			W
DC Power Dissipation (CW)		0.35		W
0.1dB Compression P0.1dB		30		dBm
IIP3		55		dBm
Switching Speed		50	100	ns
Weight		2.82		ounces
Impedance		50		$\Omega$
Biasing(+5V/-5V)		350/50		mA
Input /Output Connectors		SMA-Female		
Finish		Gold Plated		
Material		Aluminum		
Seal		Hermetically Sealed ( optional )		



### Absolute Maximum Ratings

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

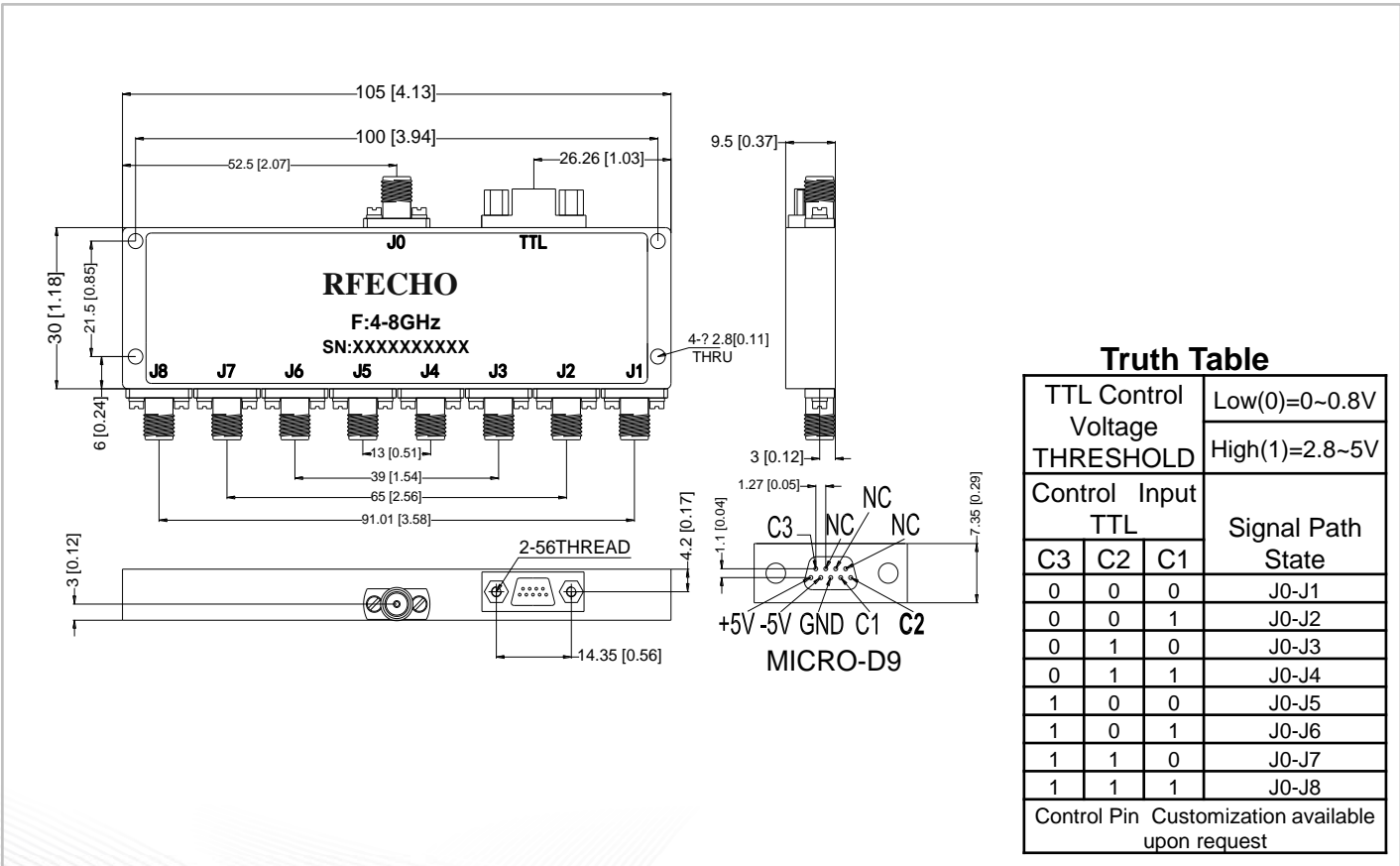
Part No.	Description
DBSR0804000800A	SP8T 4-8GHz PIN Diode Switch

### 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 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

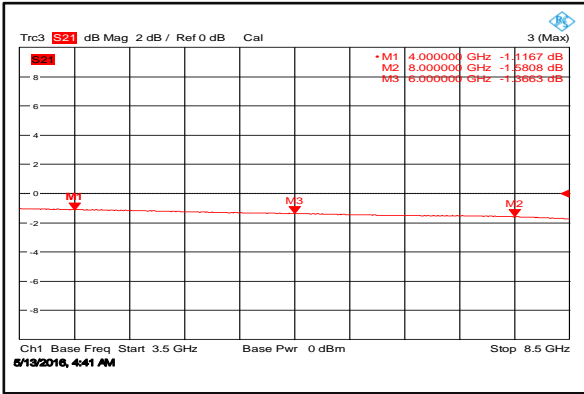
### Outline Drawing:

All Dimensions in mm (inches)

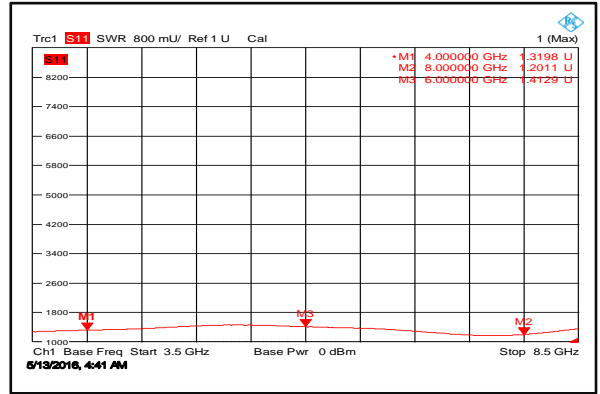




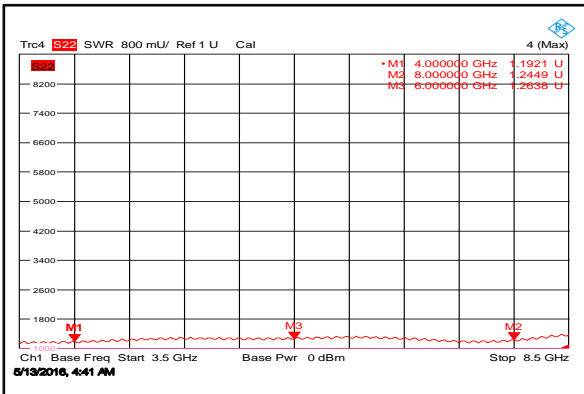
### Insertion Loss



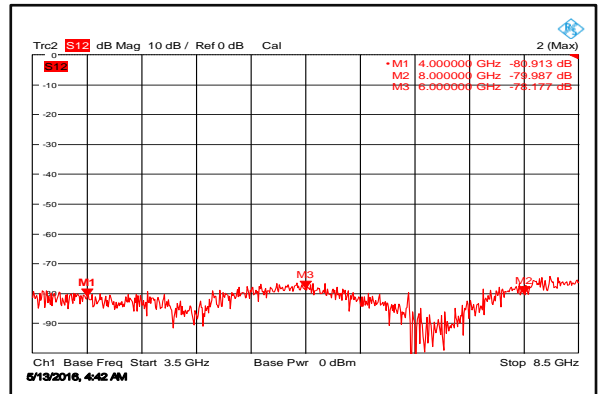
### Input VSWR



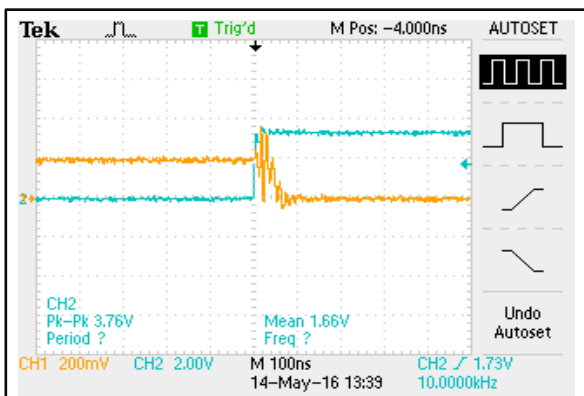
### Output VSWR



### Isolation



### Turn on Switching Speed



### Turn off Switching Speed

