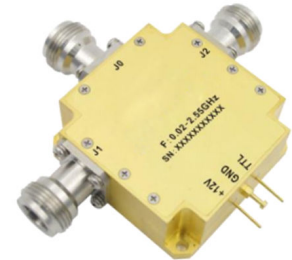




# Reflective 0.02-2.55GHz Coaxial SP2T Switch

## Features

- Wide Band Operation 0.02-2.55GHz
- TTL compatible driver included
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Customization available upon request
- High Power Cold Switching



## 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	0.02		1	1		2.55	GHz
Insertion Loss		1.3	1.8		2.1	2.4	dB
Insertion Loss Temperature Coefficient		0.003			0.003		dB/ ° C
Isolation	50	54		45	50		dB
Input VSWR		1.4	1.5		1.5	1.6	: 1
Output VSWR		1.4	1.5		1.5	1.6	: 1
RF Input power (CW)			200			200	W
DC Power Dissipation		30			60		W
0.1dB Compression Point (P0.1dB)		53			53		dBm
IIP3		55			55		dBm
Switching Speed		5			5		us
Weight	9.9						ounces
Impedance	50						Ω
Bias Current (+12V)	180						mA
Input / Output Connectors	N-Female						
Finish	Gold Plating						
Material	Aluminum						
Sealing	Hermetically Sealed (optional)						



### Absolute Maximum Ratings

Biasing	+12V ± 10%
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### Environmental Specifications

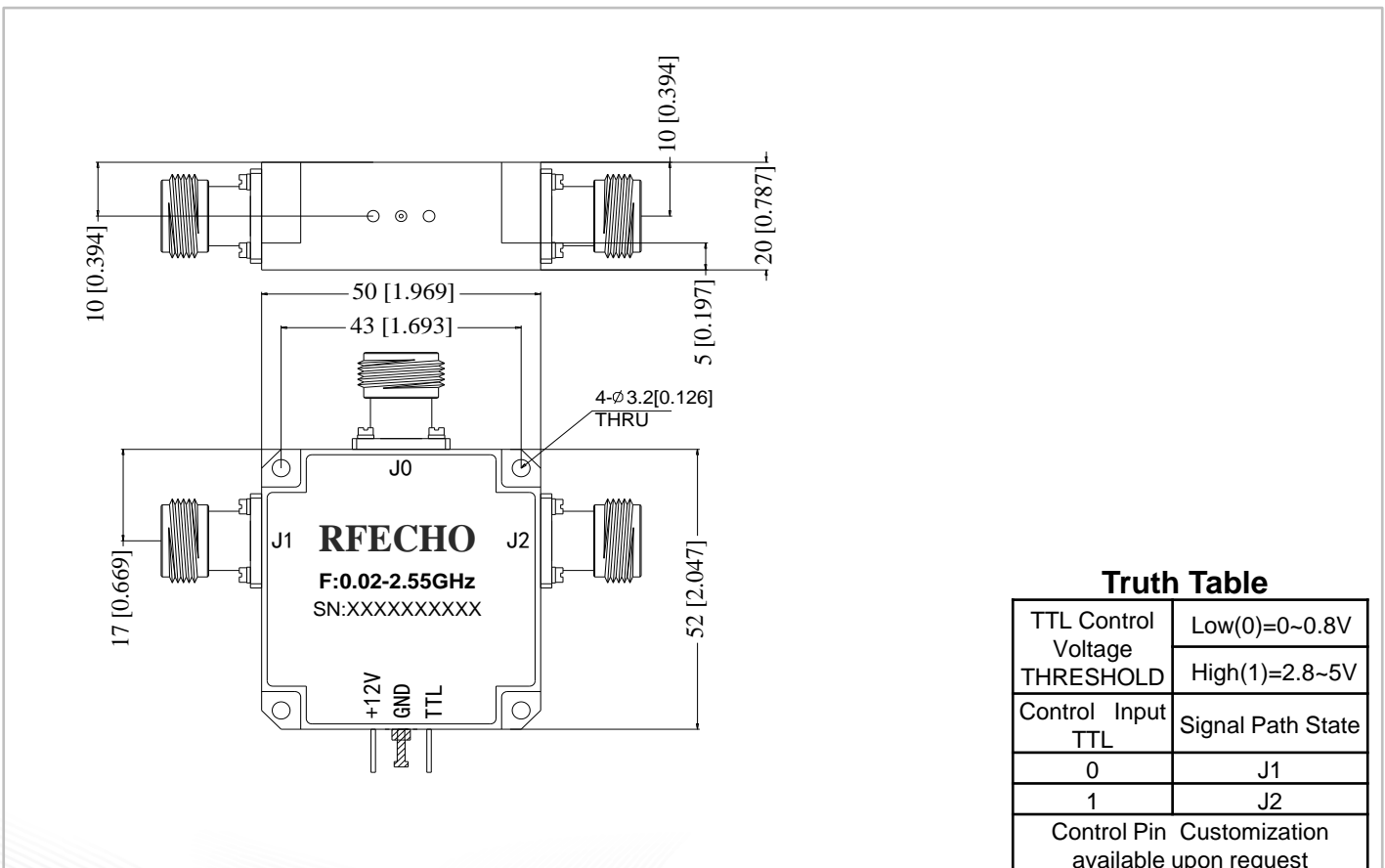
Operational Temperature	-40°C~+60°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH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

### Ordering Information

Part No.	Description
DBSR0200020255A	SP2T0.02-2.55GHz PIN Diode Switch

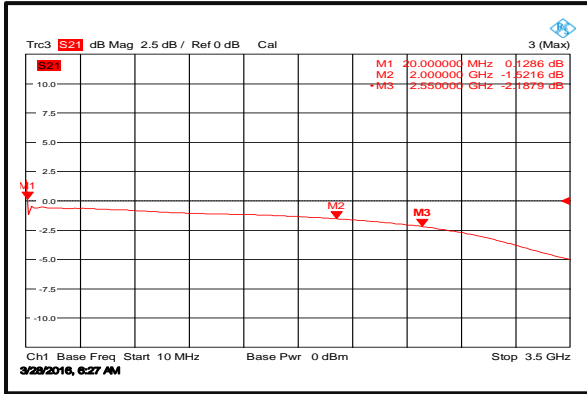
### Outline Drawing:

All Dimensions in mm (inches)

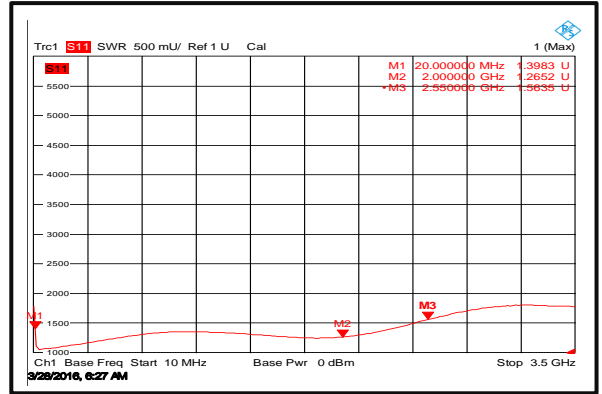




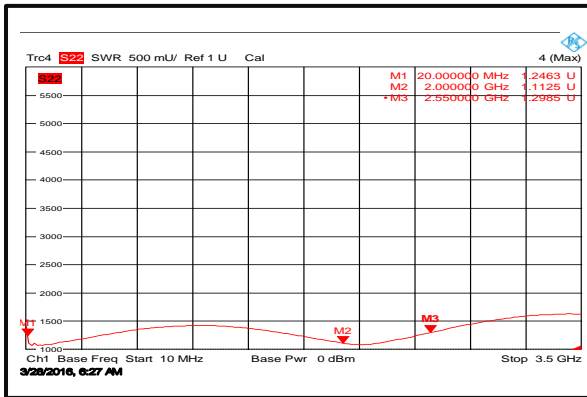
### Insertion Loss



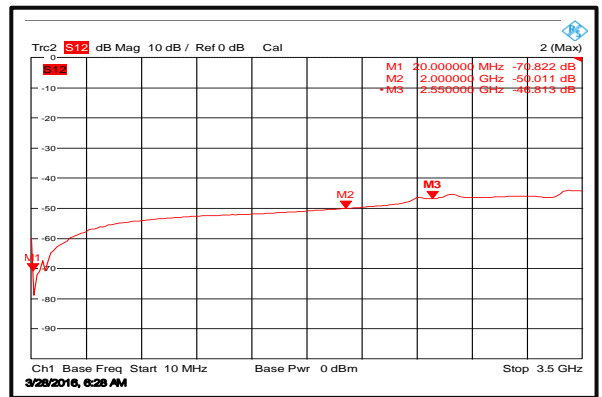
### Input VSWR



### Output VSWR



### Isolation



### Switching Speed

