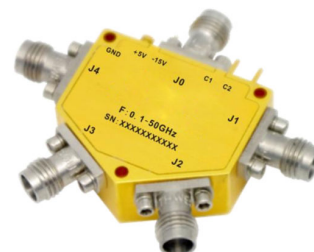




Absorptive 0.1-50GHz Coaxial SP4T Switch

Features

- Ultra Wide Band Operation 0.1-50GHz
- 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	0.1-18			18-43.5			43.5-50			GHz
Insertion Loss		3.3	4.0		5.0	6.0		5.5	6.5	dB
Insertion Loss Temperature Coefficient		0.003			0.003			0.003		dB/ °C
Isolation	60	70		45	55		40	55		dB
Input VSWR		1.8	2.5		2.5	3		2	2.5	: 1
Output VSWR		1.8	2.5		2.5	3		2	2.5	: 1
RF Input power			23			23			23	dBm
DC Power Dissipation (CW)		0.15			0.15			0.15		W
0.1dB Compression P0.1dB		23			23			23		dBm
IIP3		55			50			48		dBm
Switching Speed	100									ns
Weight	1.06									Ounces
Impedance	50									Ω
Bias Current(+5V/-15V)	120/50									mA
Input /Output Connectors	2.4mm-Female									
Finishing	Gold Plating									
Material	Aluminum									
Sealing	Hermetically Sealed (optional)									



Absolute Maximum Ratings

Biasing	+5V \pm 10%/-15V \pm 10%
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Ordering Information

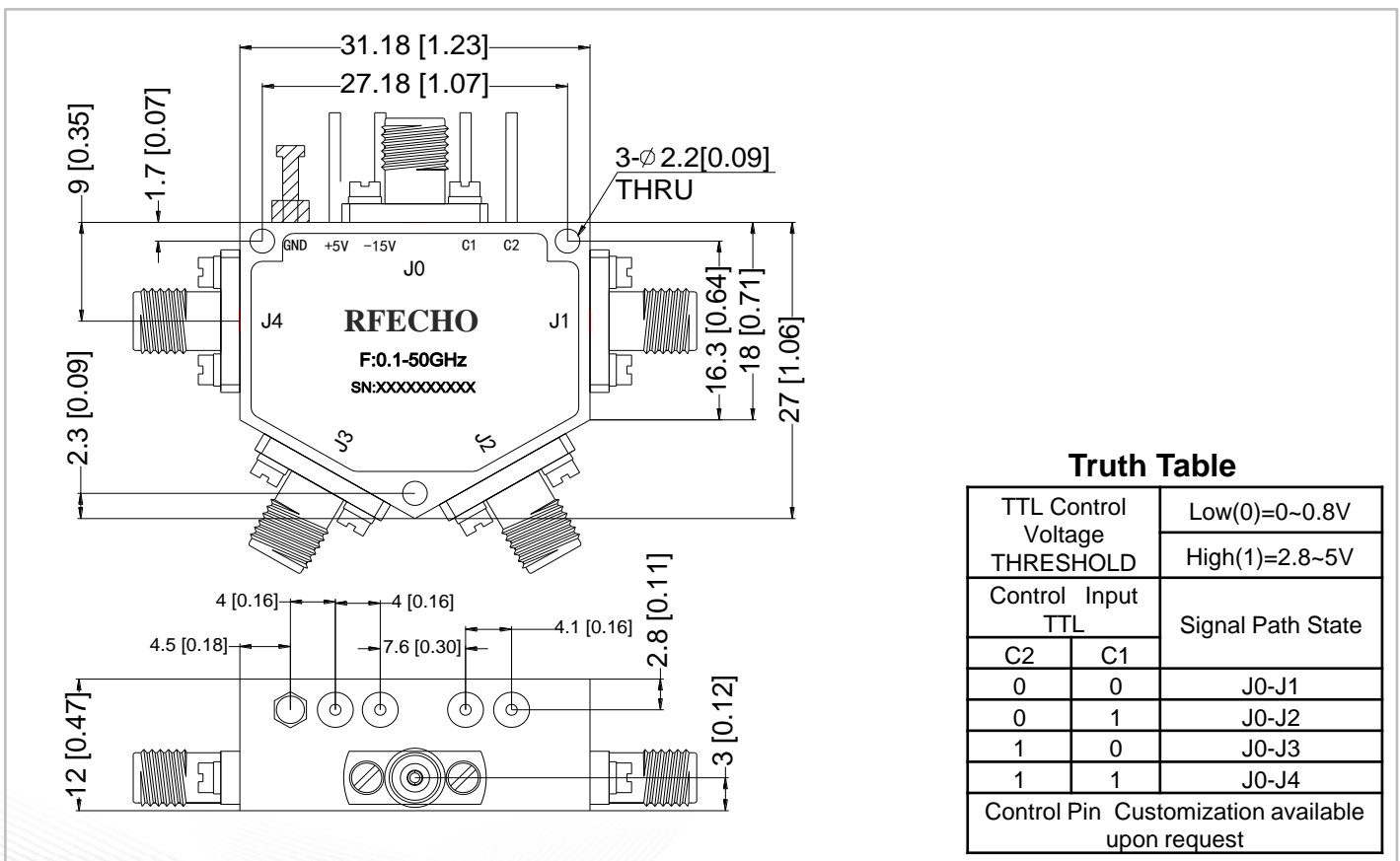
Part No.	Description
DBSA0400105000A	SP4T 0.1-50GHz PIN Diode Switch

Environmental Specifications

Operational Temperature	-40°C ~+85°C (Case Temperature)
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

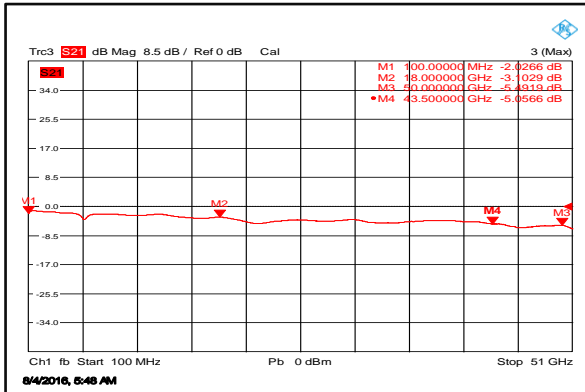
Outline Drawing:

All Dimensions in mm (inches)

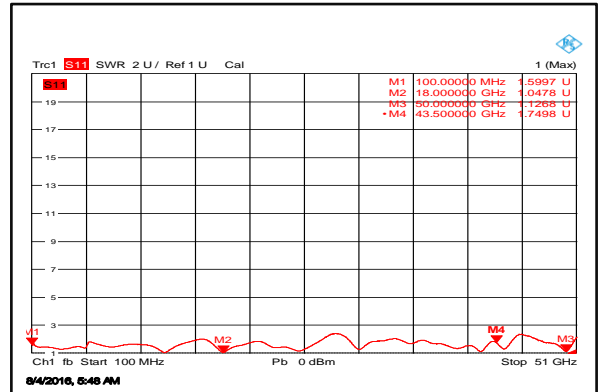




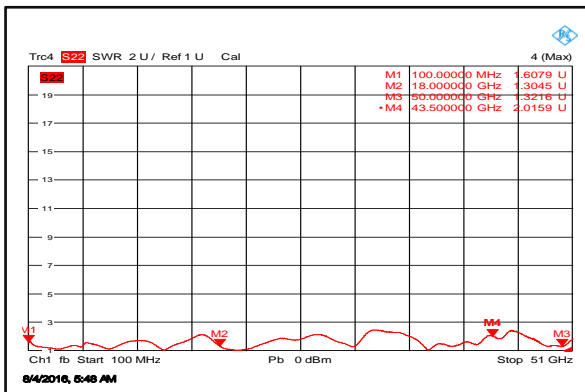
Insertion Loss



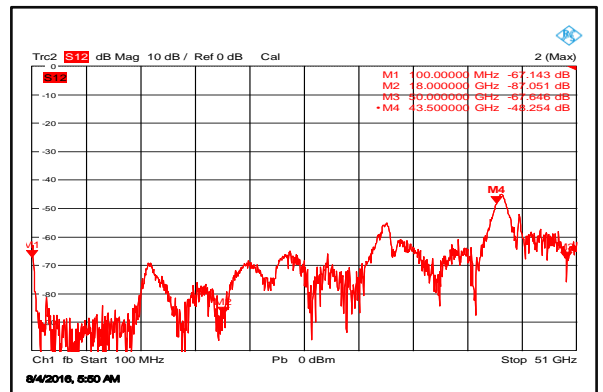
Input VSWR



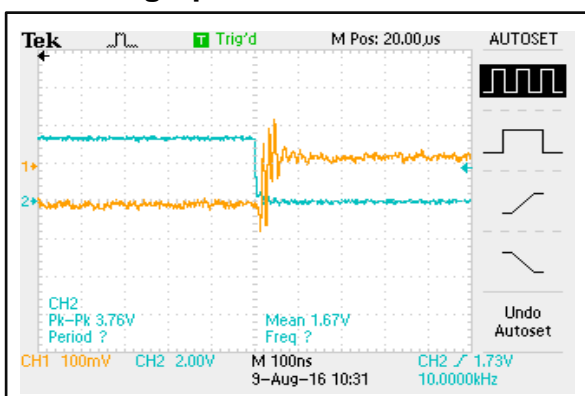
Output VSWR



Isolation



Switching Speed



Switching Speed

