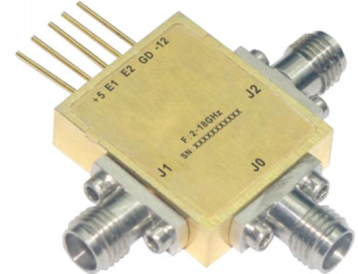




Absorptive 2-18GHz Coaxial SP2T Switch

Features

- Wide Band Operation 2-18GHz
- 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	Units
Frequency Range		2~18		GHz
Insertion Loss		2.8	3.0	dB
Insertion Loss Temperature Coefficient		0.003		dB/ °C
Isolation	60	65		dB
Input VSWR		1.6	2.0	: 1
Output VSWR		1.6	2.0	: 1
Power Dissipation (CW)		0.3	0.5	W
IM3		40		dBc
1dB Compression P1dB		30		dBm
Switching Speed			50	ns
Weight		25		ounces
Impedance		50		Ω
Biasing(+5V/-12V)		80/40		mA
Input /Output Connectors	SMA-Female/SMA-			
Finish	Gold Plated			
Material	Brass			
Seal	Hermetically Sealed (optional)			



Absolute Maximum Ratings

Biasing	+5V ± 10%/-12V ± 10%
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Environmental Specifications

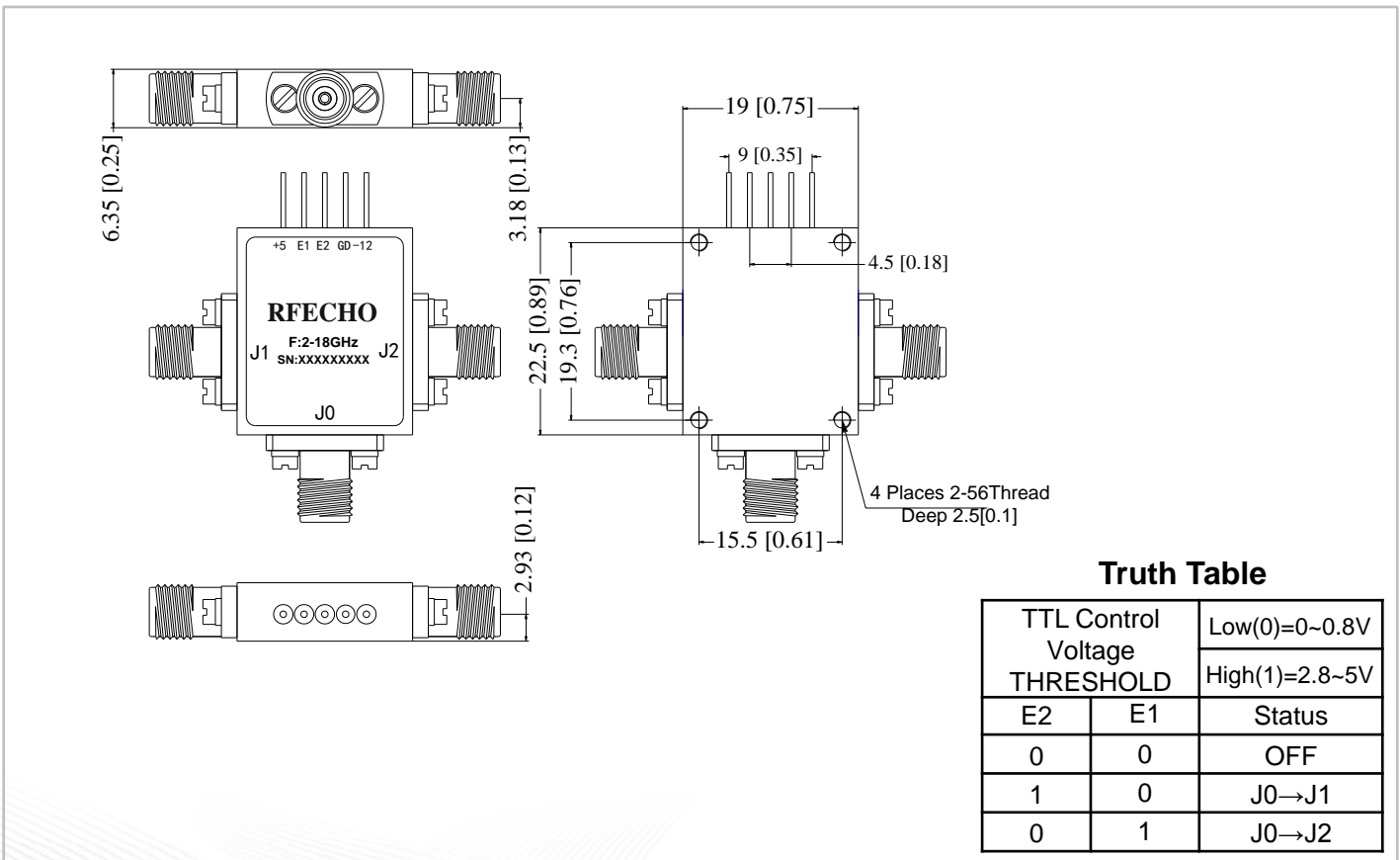
Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH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

Ordering Information

Part No.	Description
DBSA0202001800F	SP2T 2-18GHz PIN Diode Switch

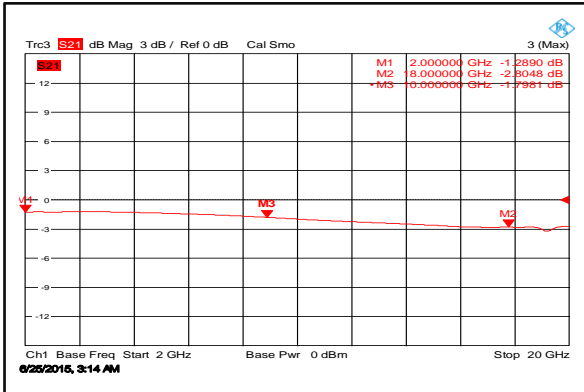
Outline Drawing:

All Dimensions in mm (inches)

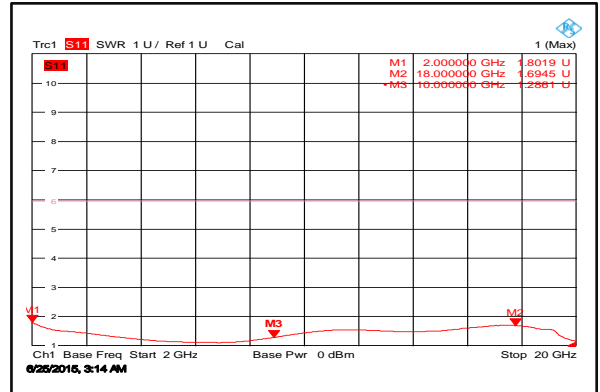




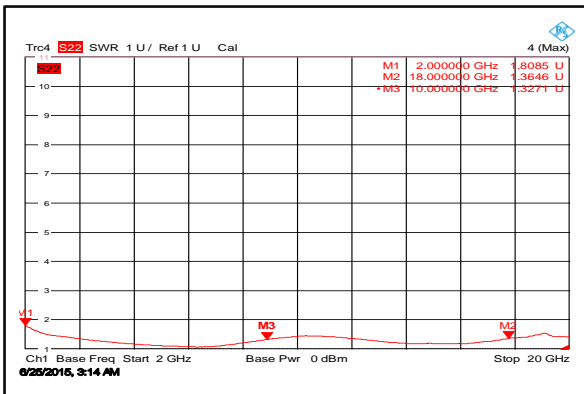
Insertion Loss



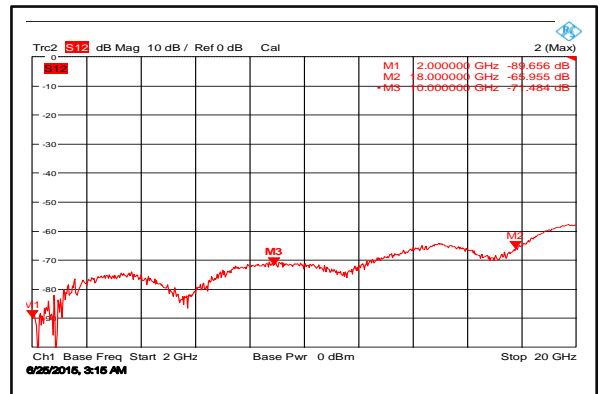
Input VSWR



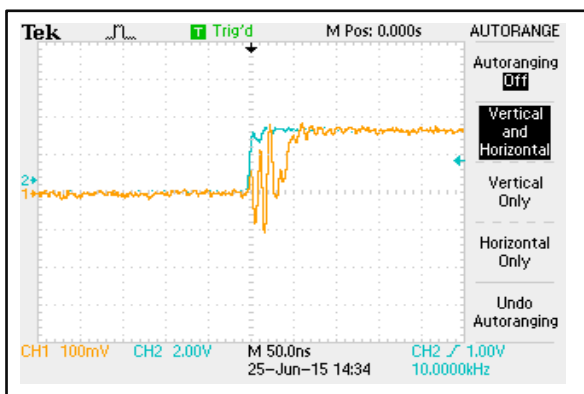
Output VSWR



Isolation



Turn on Switching Speed



Turn off Switching Speed

