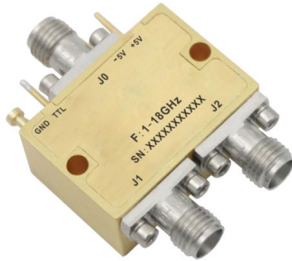


Absorptive 1-18GHz Coaxial SP2T Switch



Features

- Wide Band Operation 1-18GHz
- TTL compatible driver included
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Customization available upon request

Applications

- Wireless Infrastructure
- Test and measurement Instrument
- Fiber Optics
- 5G Communication
- RF Microwave & VSAT

Parameters	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	1-8		8-12		12-18		GHz
Insertion Loss	1.5	1.8	1.8	2.5	2.5	3.0	dB
Insertion Loss Temperature Coefficient	0.003		0.003		0.003		dB/ °C
Isolation	70	75	70	75	60	65	dB
Input VSWR	1.3	1.5	1.4	1.6	1.6	1.8	: 1
Output VSWR	1.3	1.5	1.4	1.6	1.6	1.8	: 1
DC Power Dissipation	0.5		0.5		0.5		W
0.1dB Compression Point (P0.1dB)	30		30		30		dBm
IIP3	45		45		43		dBm
Switching Speed	100 Max.						ns
Weight	0.6 Max.						ounces
Impedance	50						Ω
Bias Current (+5V / -5V)	80/50 Max.						mA
Input / Output Connectors	SMA-Female						
Finish	Gold Plated						
Material	Aluminum						
Sealing	Hermetically Sealed (Optional)						

Absorptive 1-18GHz Coaxial SP2T Switch

Absolute Maximum Ratings

Biasing	+5V±10%/-5V±10%
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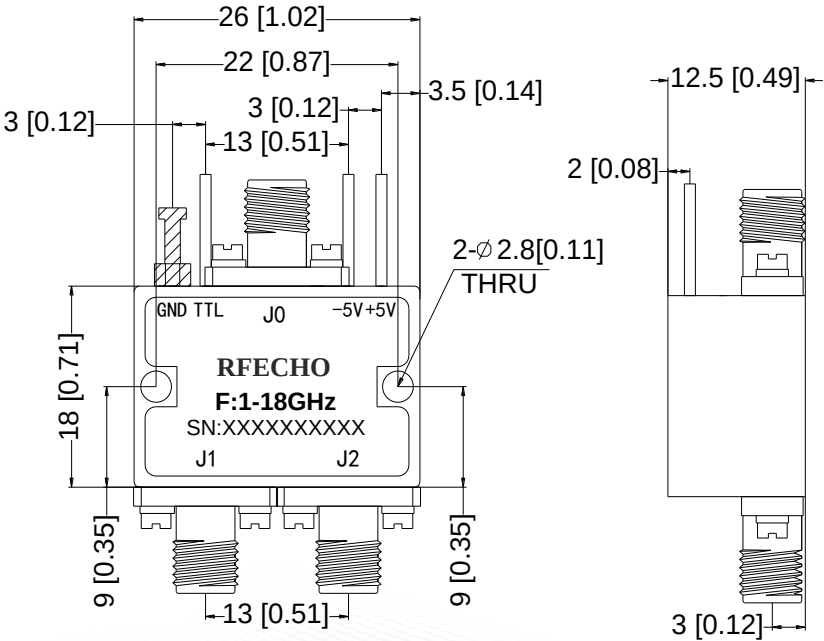
Truth Table

TTL Control Voltage THRESHOLD	Low(0)=0~0.8V
	High(1)=2.8~5V
Control Input TTL	Signal Path State
1	J0-J1
0	J0-J2
Control Pin Customization available upon request	

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

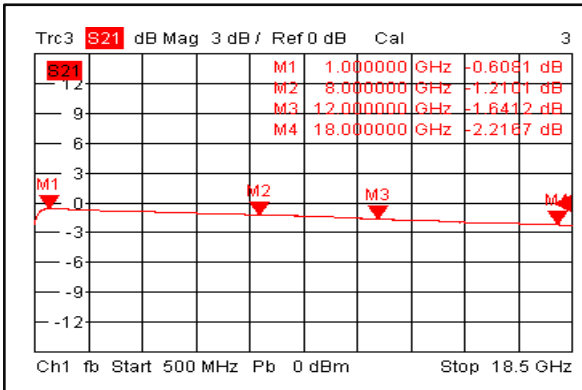
Product Dimensions



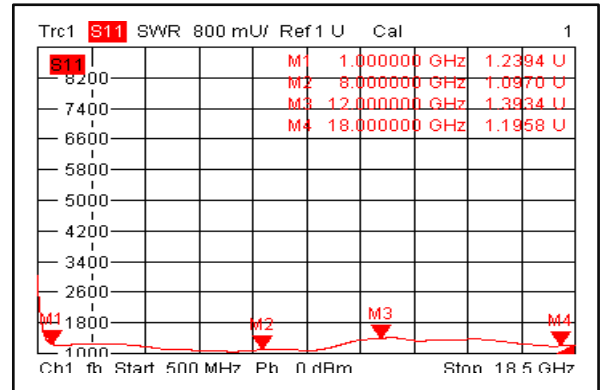
All Dimensions in mm (inches)

Absorptive 1-18GHz Coaxial SP2T Switch

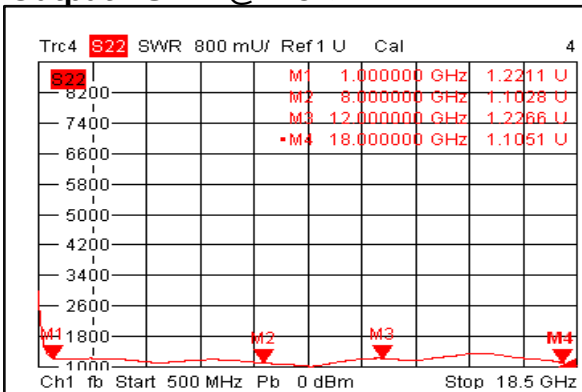
Insertion Loss @+25°C



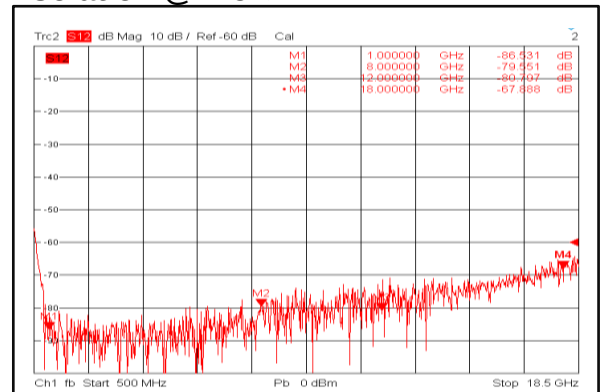
Input VSWR @+25°C



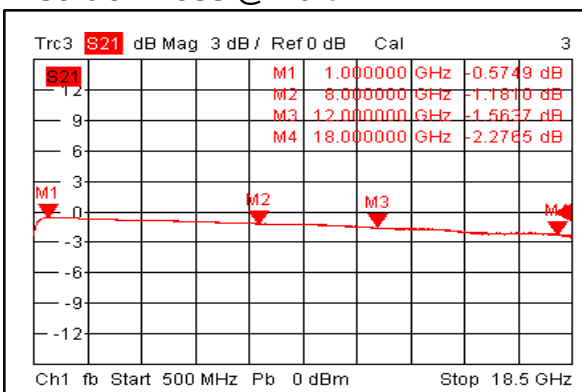
Output VSWR @+25°C



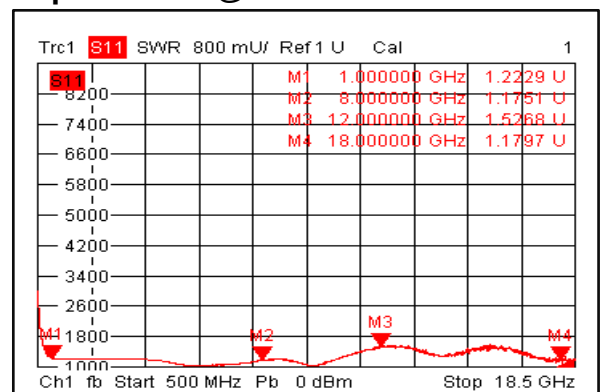
Isolation @+25°C



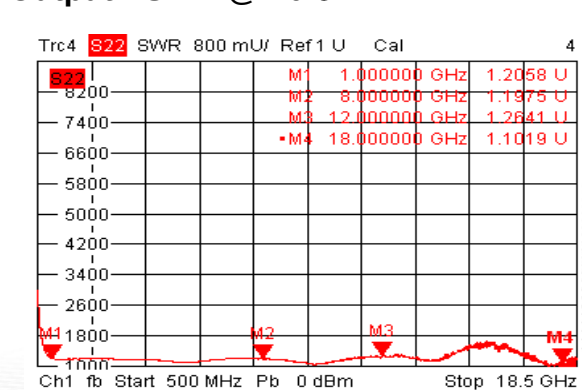
Insertion Loss @-40°C



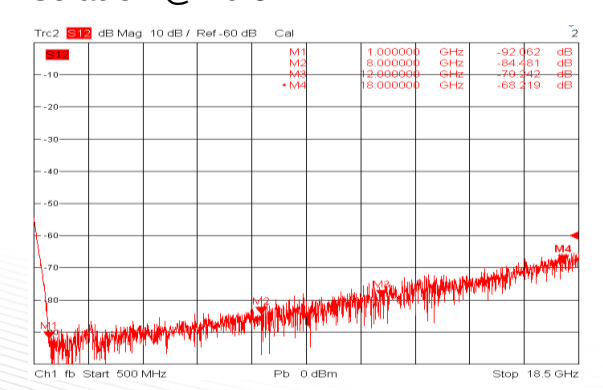
Input VSWR @-40°C



Output VSWR @-40°C



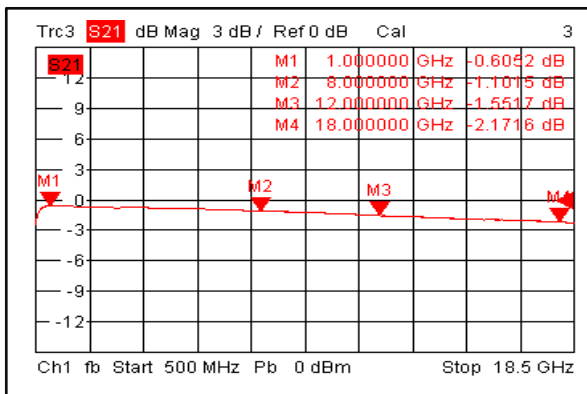
Isolation @-40°C



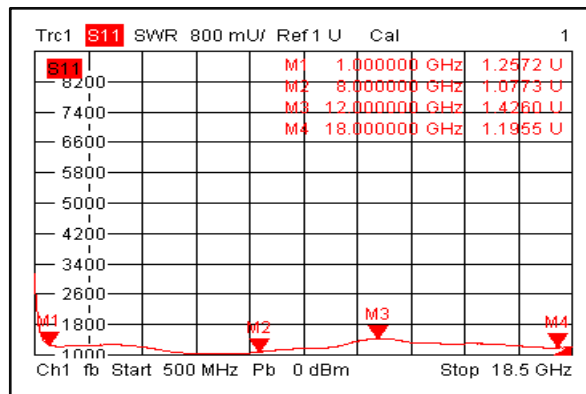


Absorptive 1-18GHz Coaxial SP2T Switch

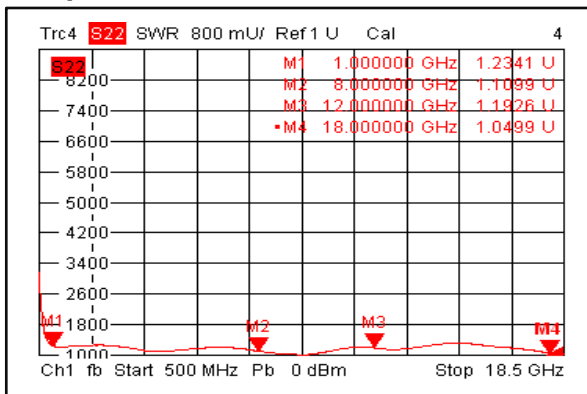
Insertion Loss @+85°C



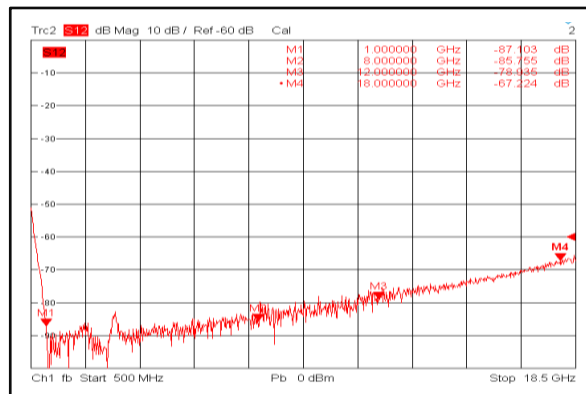
Input VSWR @+85°C



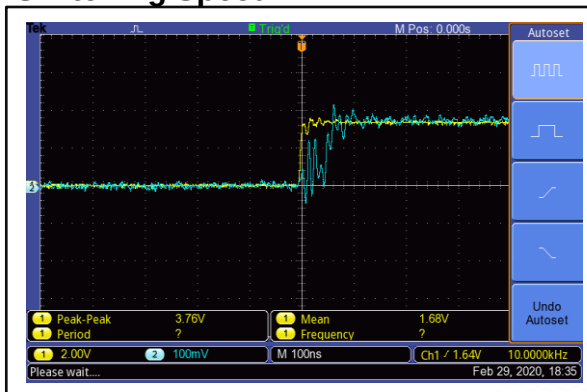
Output VSWR @+85°C



Isolation @+85°C



Switching Speed



Switching Speed

