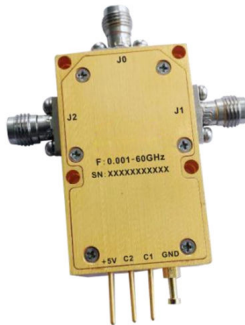


Reflective 0.001-60GHz Coaxial SP2T Switch



Features

- Ultra Wide Band Operation 0.001-60GHz
- 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	Min	Typ.	Max	Units	
Frequency Range	0.001-20			20-40			40-60			GHz	
Insertion Loss	3.5			4.0	4.5	5.5	8.5			10.0	dB
Insertion Loss Temperature Coefficient	0.003			0.003			0.003				dB/ °C
Isolation	35	40		30	33		25	28		dB	
Input VSWR	2.5			3.0	2.8	3.0	2.1			3.0	: 1
Output VSWR	2.5			3.0	2.8	3.0	2.1			3.0	: 1
RF Input Power				23	23			23			dBm
DC Power Dissipation	0.6			0.6			0.6				W
0.1dB Compression Point (P0.1dB)	23			23			23				dBm
IIP3	55			50			50				dBm
Switching Speed	50			80	50	80	50			80	ns
Weight				1.41							ounces
Impedance				50							Ω
Bias Current (+5V)				30 Max.							mA
Input / Output Connectors				1.85mm - Female							
Finish				Gold Plated							
Material				Aluminum							
Sealing				Hermetically Sealed (Optional)							

Reflective 0.001-60GHz Coaxial SP2T Switch

Absolute Maximum Ratings

Biasing	+5V±10%
---------	---------

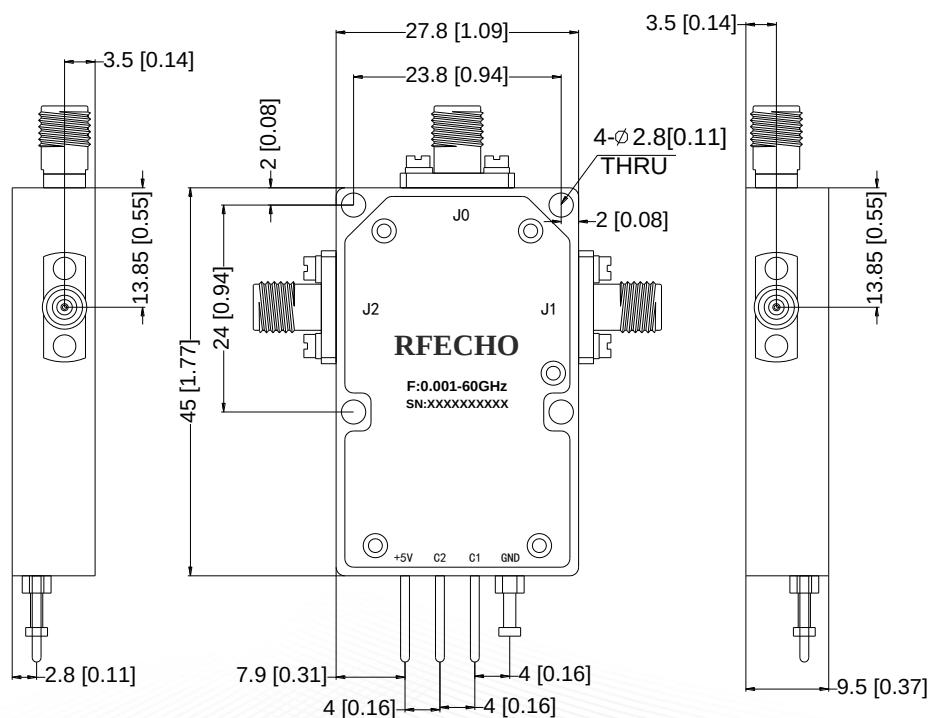
Truth Table

TTL Control Voltage THRESHOLD		Low(0)=0~0.8V	
		High(1)=2.8~5V	
Control Input TTL		Signal Path State	
C1	C2		
1	1		Not Used
1	0		J0-J1
0	1		J0-J2
0	0	OFF	
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

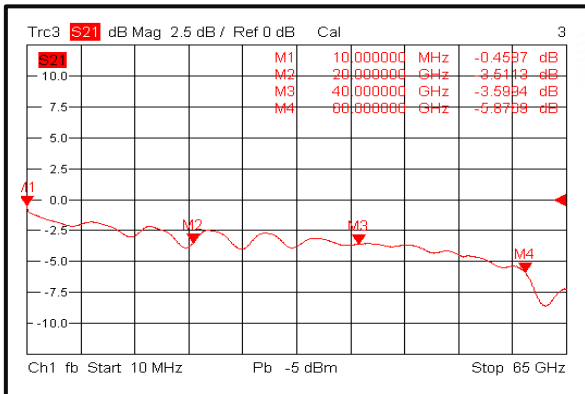
Product Dimensions



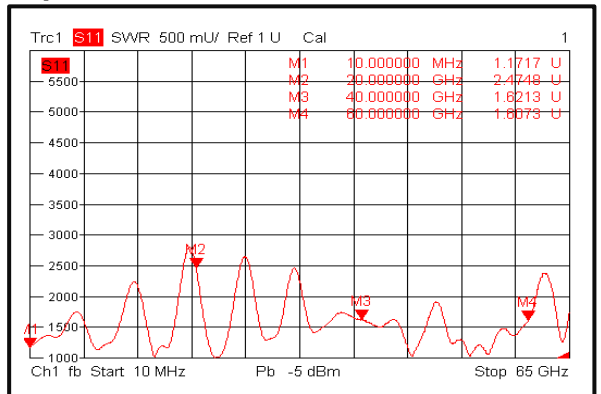
All Dimensions in mm

Reflective 0.001-60GHz Coaxial SP2T Switch

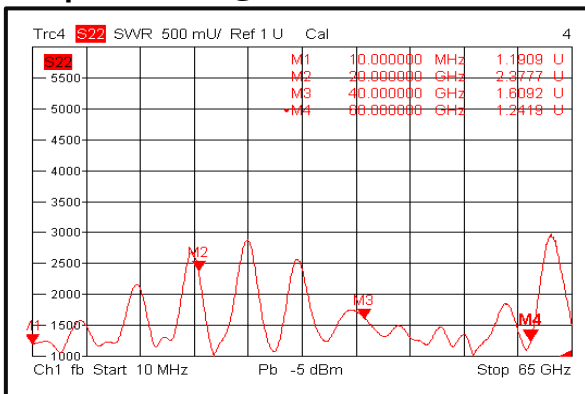
Insertion Loss @+25°C



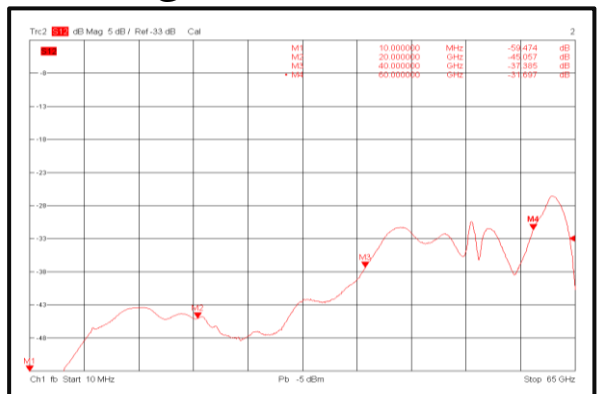
Input VSWR @+25°C



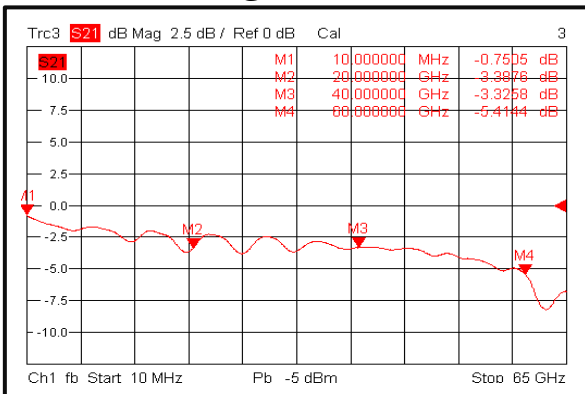
Output VSWR @+25°C



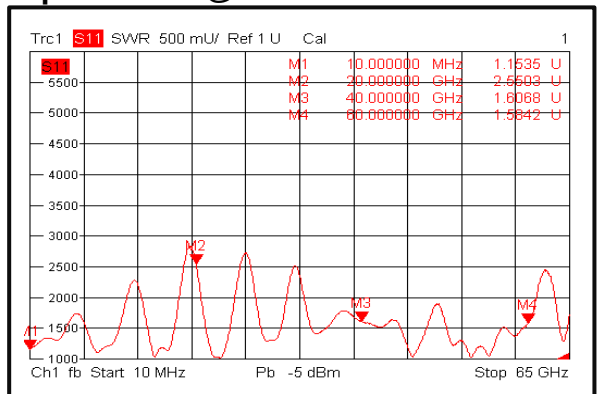
Isolation @+25°C



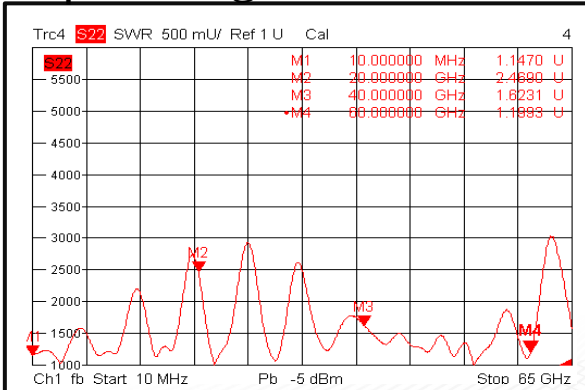
Insertion Loss @-40°C



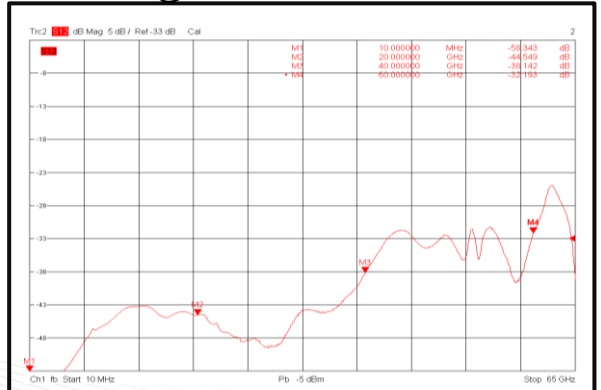
Input VSWR @-40°C



Output VSWR @-40°C

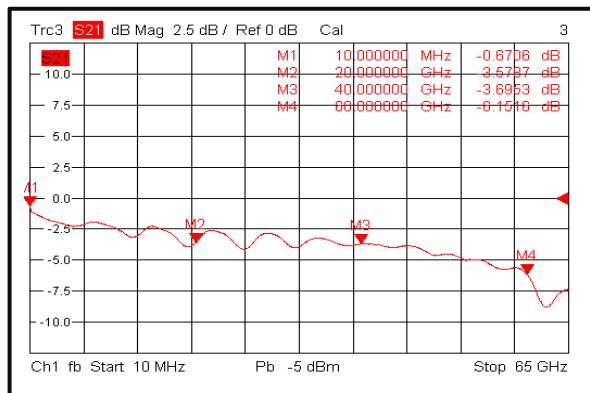


Isolation @-40°C

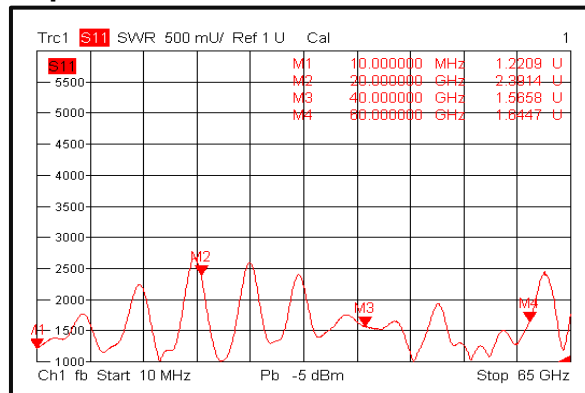


Reflective 0.001-60GHz Coaxial SP2T Switch

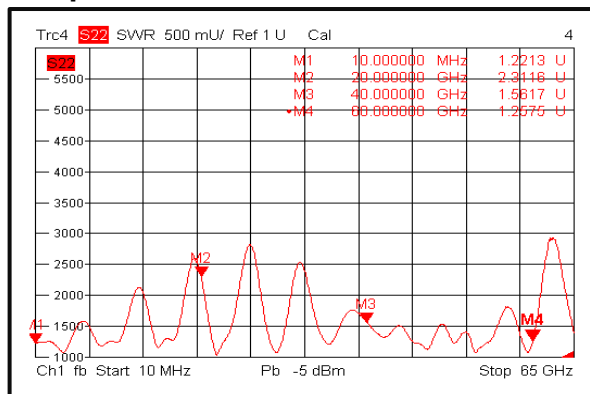
Insertion Loss @+85°C



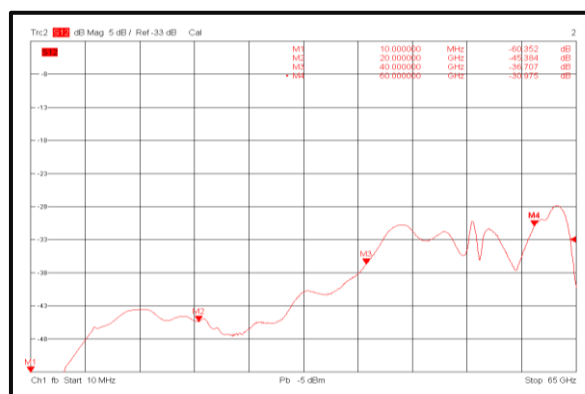
Input VSWR @+85°C



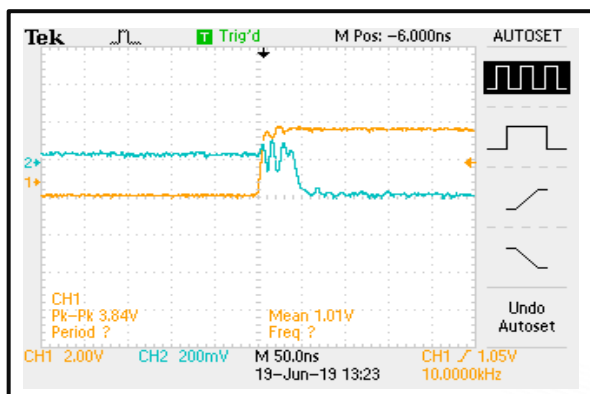
Output VSWR @+85°C



Isolation @+85°C



Switching Speed



Switching Speed

