

Reflective Coaxial SP2T Switch 0.001-75GHz



Features

- Ultra Wide Band Operation 0.001-75GHz
- Fast Switching Speed
- Low Insertion Loss and High Isolation

Applications

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

Parameter	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	0.001-26.5			26.5-40			40-75			GHz
Insertion Loss		3.5	4.8		4.8	6.0		6.0	7.5	dB
Insertion Loss Temperature Coefficient		0.003			0.003			0.003		dB/ ° C
Isolation	30	35		26	30		27	30		dB
Input VSWR		2.0	2.5		2.0	2.5		2.0	2.5	: 1
Output VSWR		2.0	2.5		2.0	2.5		2.0	2.5	: 1
RF Input Power (CW)			15			15			15	dBm
DC Power Dissipation		0.5			0.5			0.5		W
0.1dB Compression Point (P0.1dB)		15			15			15		dBm
IIP3		45			45			45		dBm
Switching Speed		400	500		400	500		400	500	ns
Weight					0.6 Max.					ounces
Impedance					50					Ω
Bias Current (+5V / -5V)					80/50 Max.					mA
Input / Output Connectors					1.85mm – Female (Standard)					
					1.0mm – Female (Optional)					
Finish					Gold Plated					
Material					Aluminum					
Sealing					Hermetically Sealed (Optional)					

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Absolute Maximum Ratings

Biasing	+5V±10%/-5V±10%
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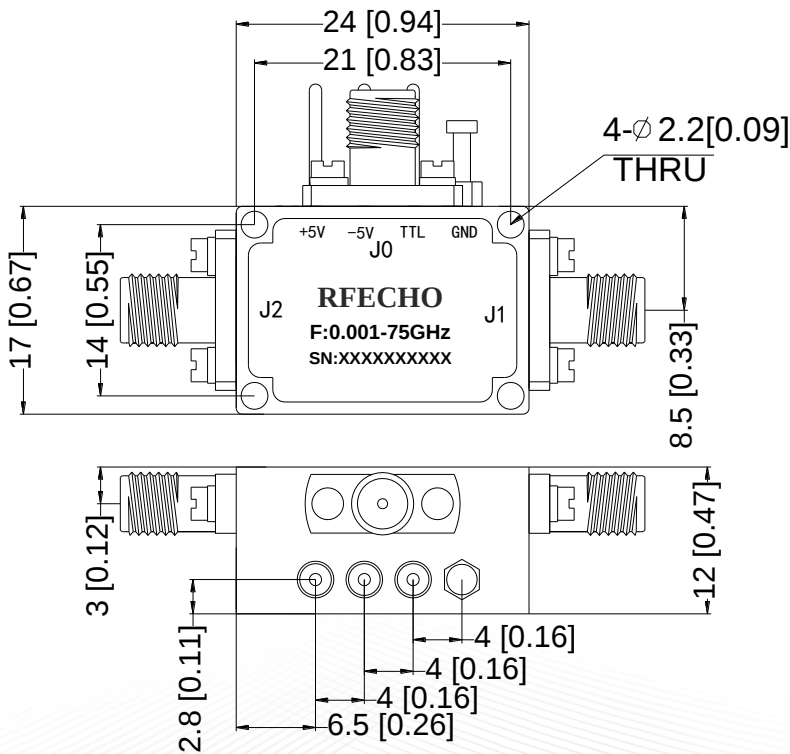
Truth Table

TTL Control Voltage	Low(0)=0~0.8V
	High(1)=2.8~5V
Control Input TTL	Signal Path State
0	J0-J1
1	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

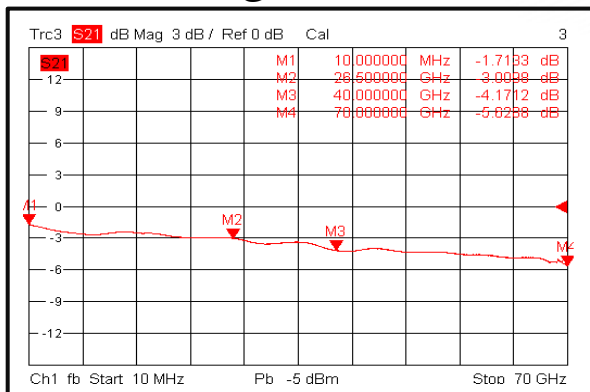
Product Dimensions



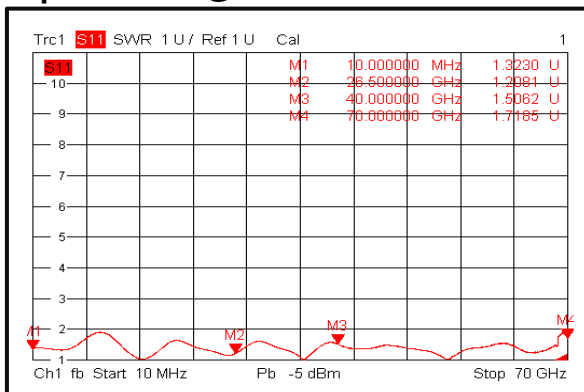
All Dimensions in mm

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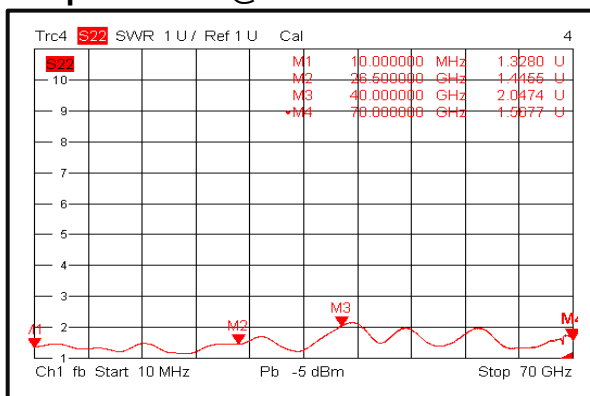
Insertion Loss @+25°C



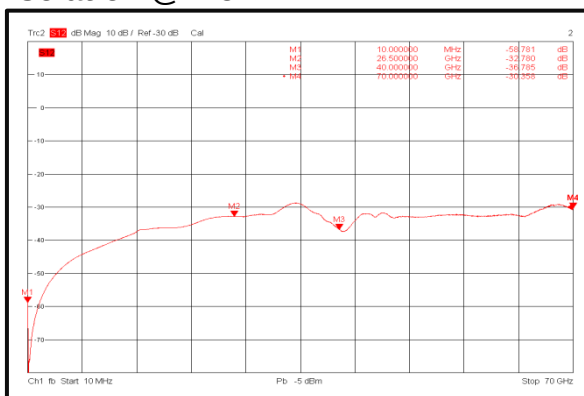
Input VSWR @+25°C



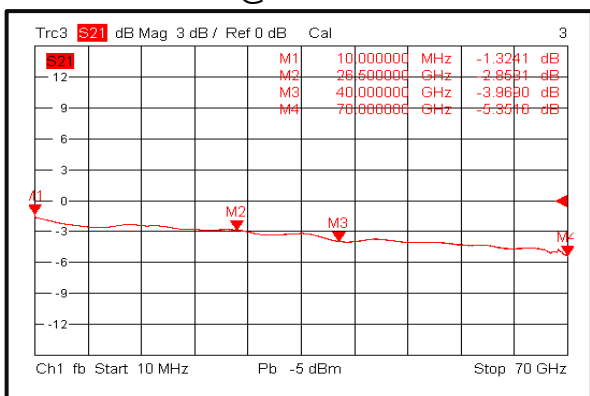
Output VSWR @+25°C



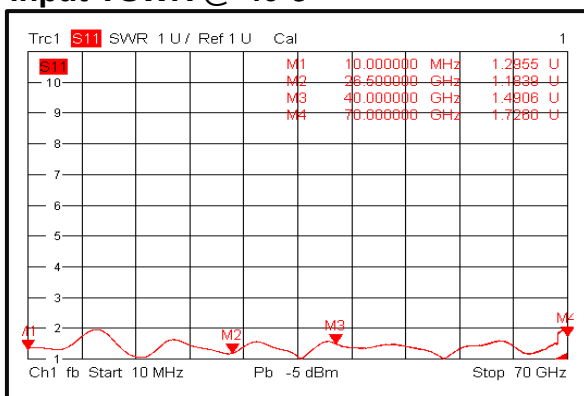
Isolation @+25°C



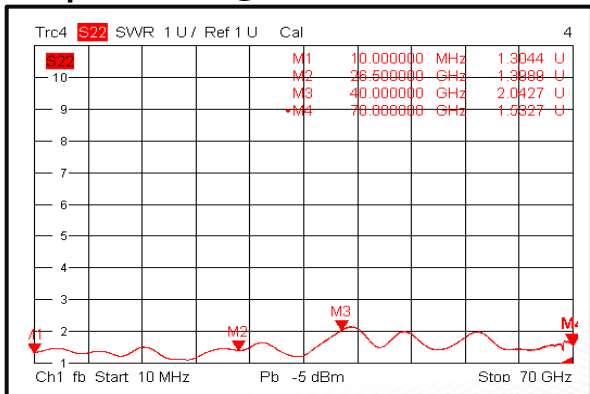
Insertion Loss @-40°C



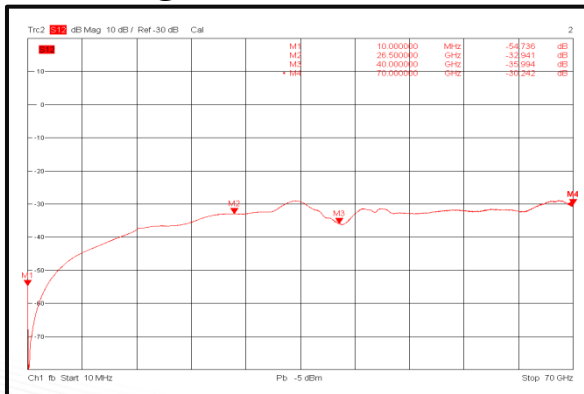
Input VSWR @-40°C



Output VSWR @-40°C

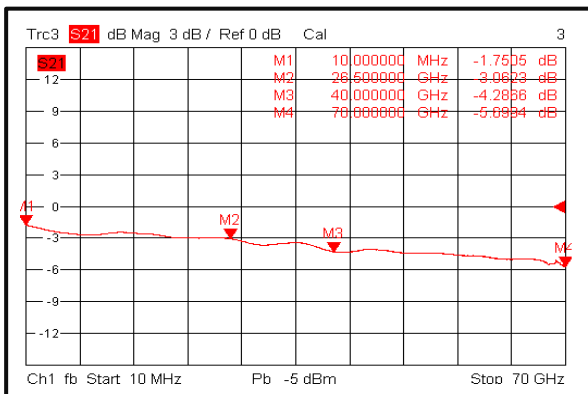


Isolation @-40°C

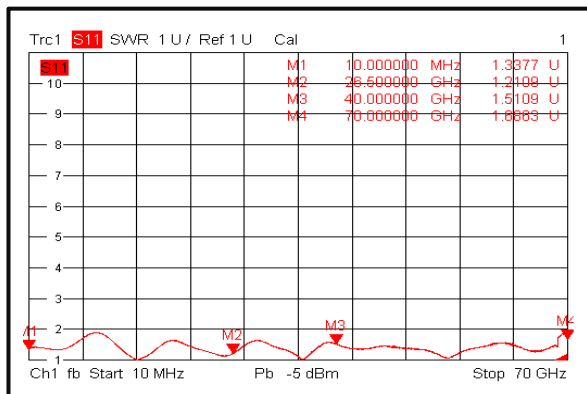


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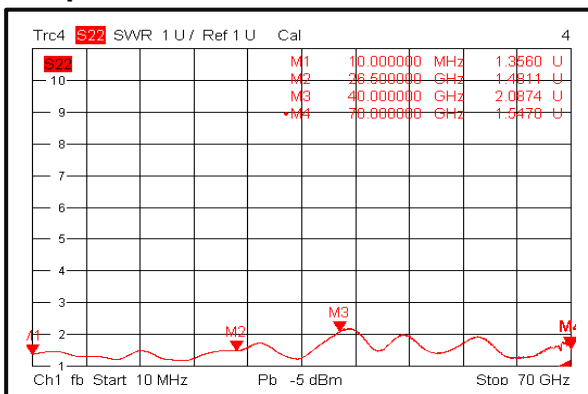
Insertion Loss @+85°C



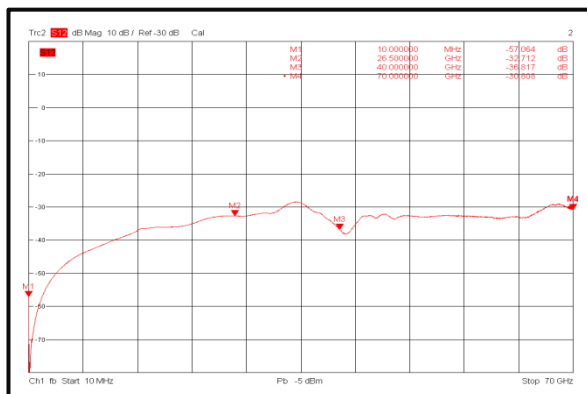
Input VSWR @+85°C



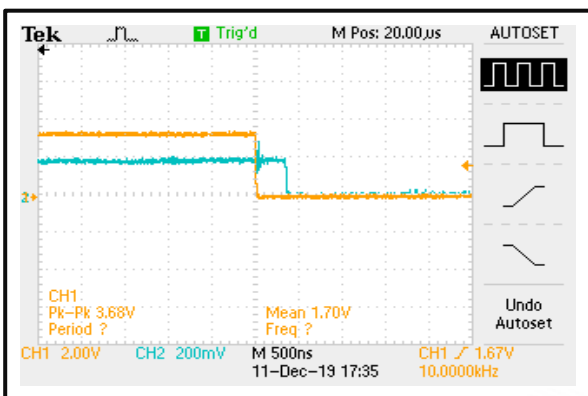
Output VSWR @+85°C



Isolation @+85°C



Switching Speed



Switching Speed

