

Reflective 0.001-1GHz Coaxial SP2T Switch



Features

- Wide Band Operation 0.001-1GHz
- TTL compatible driver included
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- High Power Cold Switching
- 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		0.001-0.1		0.1~1			GHz
Insertion Loss		0.5	1.5	0.8	1.5		dB
Insertion Loss Temperature Coefficient		0.003		0.003			dB/ ° C
Isolation	65	80	65	80			dB
Input VSWR		1.2	1.5	1.2	1.5		: 1
Output VSWR		1.2	1.5	1.2	1.5		: 1
RF Input Power			32		37		dBm
DC Power Dissipation		0.6		0.6			W
0.1dB Compression Point (P0.1dB)		32		37			dBm
IIP3		50		50			dBm
Switching Speed		2	5	2	5		us
Weight			1.41				Ounces
Impedance			50				Ω
Bias Current (+5V)			110				mA
Input / Output Connectors			SMA-Female				
Finish			Gold Plated				
Material			Aluminum				
Sealing			Hermetically Sealed (Optional)				

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Absolute Maximum Ratings

Biasing	+5V±10%
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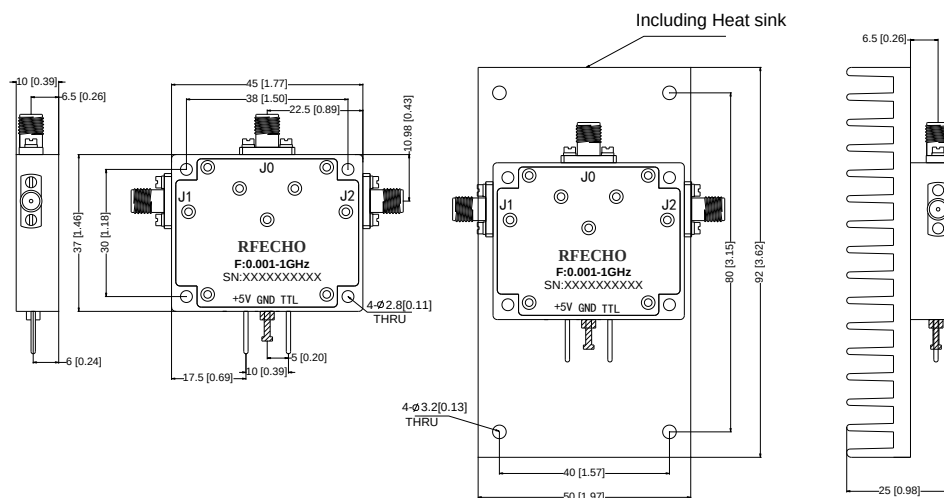
Truth Table

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

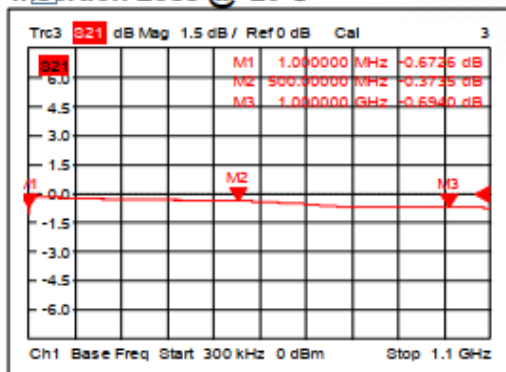
Product Dimensions



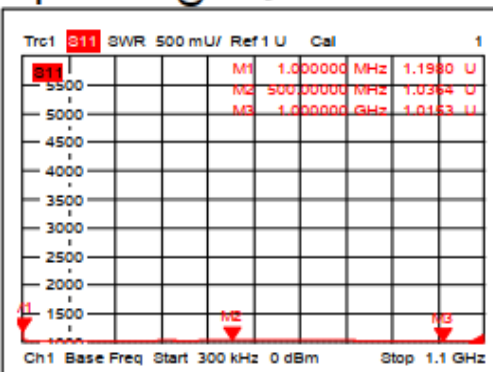
All Dimensions in mm (inches)
Housing Tolerances ± 0.1 [0.004]

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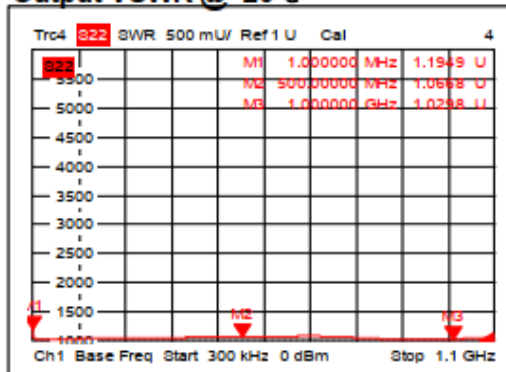
Insertion Loss @+25°C



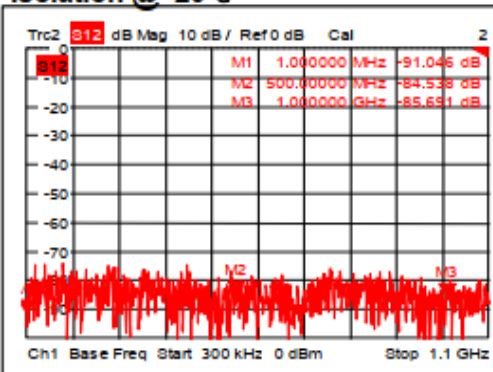
Input VSWR @+25°C



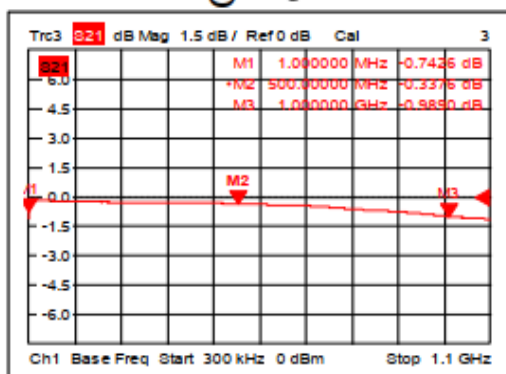
Output VSWR @+25°C



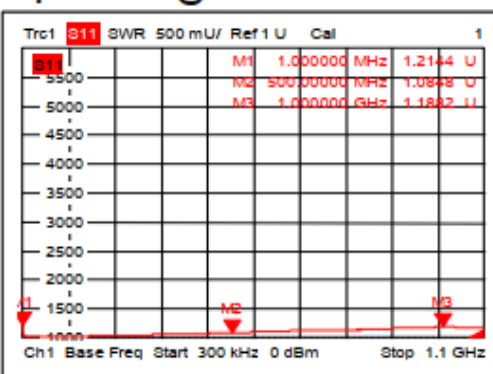
Isolation @+25°C



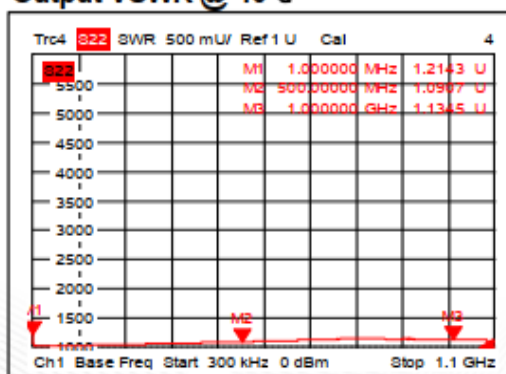
Insertion Loss @-40°C



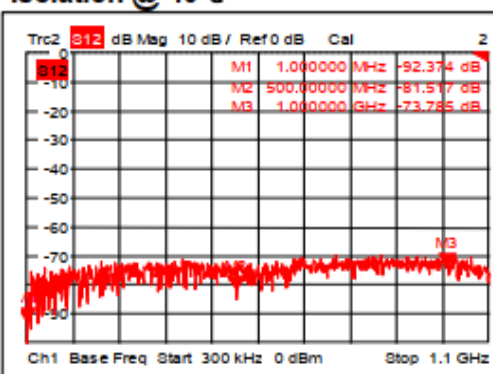
Input VSWR @-40°C



Output VSWR @-40°C

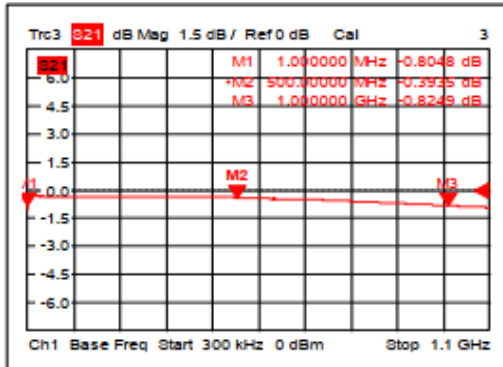


Isolation @-40°C

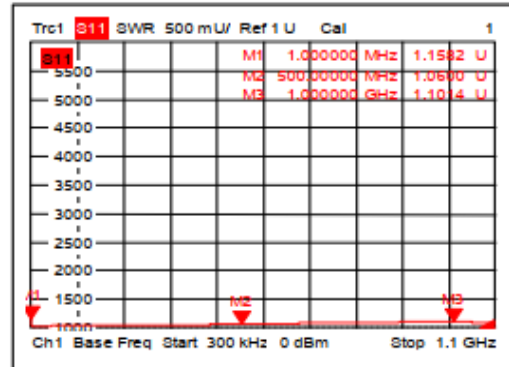


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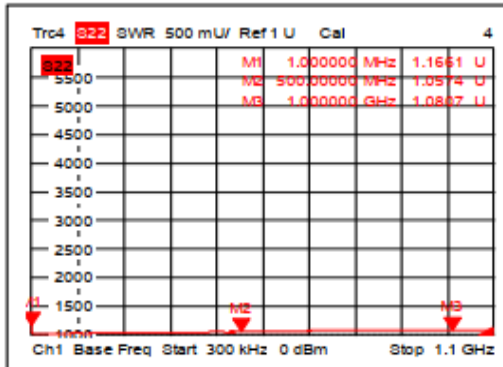
Insertion Loss @+85°C



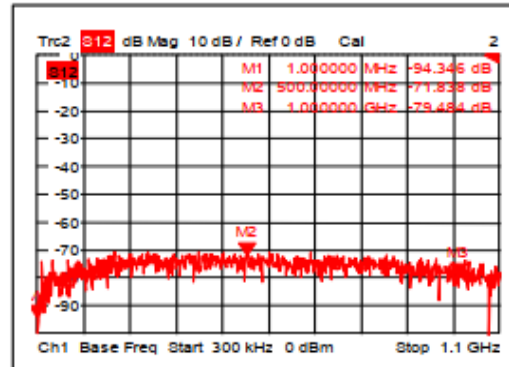
Input VSWR @+85°C



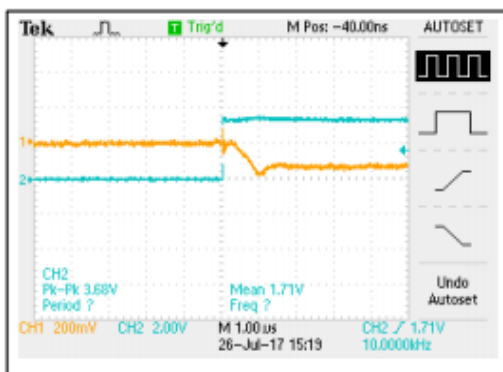
Output VSWR @+85°C



Isolation @+85°C



Switching Speed



Switching Speed

