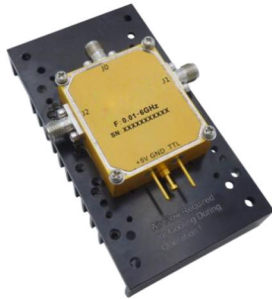


Hermetically Sealed Reflective Coaxial SP2T Switch 0.01 - 6GHz



Features

- Ultra Wide Band Operation 0.01~6GHz
- TTL compatible driver included
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- High Power Cold Switching

Applications

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

Parameters	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range			0.01-3		3-6		GHz
Insertion Loss			0.8	1.0	1.1	1.3	dB
Insertion Loss Temperature Coefficient			0.003		0.003		dB/ ° C
Isolation (Between any ports)	28		37	20	28		dB
Input VSWR			1.2	1.3	1.3	1.5	: 1
Output VSWR			1.2	1.3	1.3	1.5	: 1
RF Input Power (note 2)				46		46	dBm
DC Power Dissipation			0.7		0.7		W
0.1dB Compression Point (P0.1dB)			46		46		dBm
IIP3 @Two-tone input power = 37 dBm/tone, Δf = 1 MHz			58		58		dBm
Switching Speed				200Max.			ns
Weight	Net			1.8 Max.			Ounces
	Including Heat sink			5.0 Max.			Ounces
Impedance				50			Ω
Bias Current (+5V)				100 Max.			mA
Input / Output Connectors				SMA-Female			
Finish				Gold Plated			
Material				Aluminum			
Sealing				Hermetically Sealed (Laser Welded)			

Hermetically Sealed Reflective Coaxial SP2T Switch 0.01 - 6GHz

Absolute Maximum Ratings

Biasing	+5.5V
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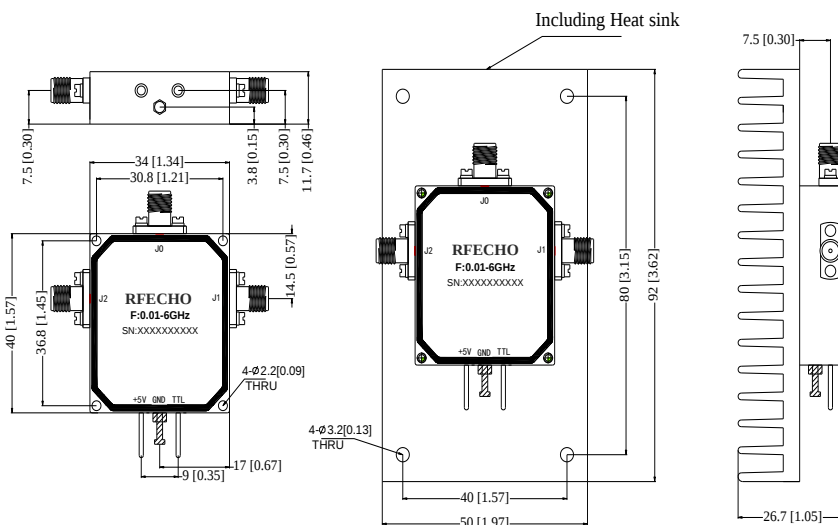
Truth Table

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

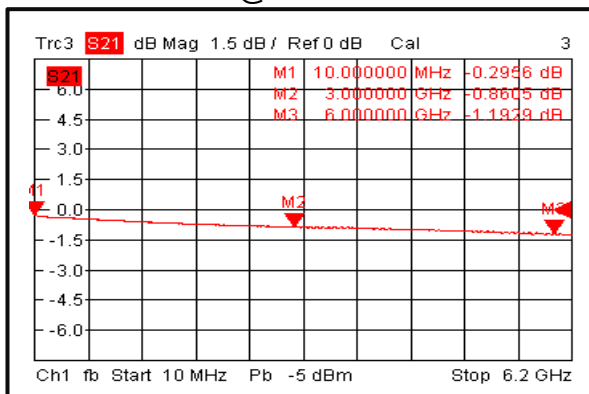
Product Dimensions



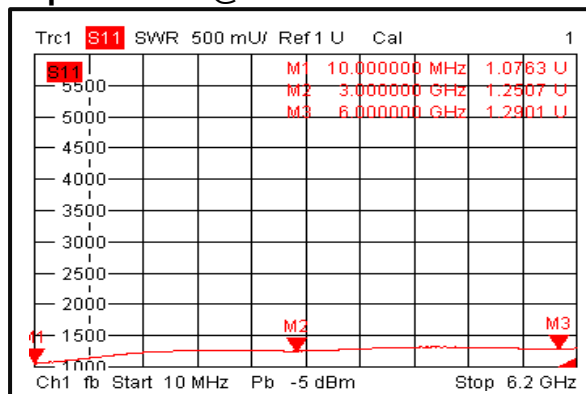
All Dimensions in mm (inches)
Housing Tolerances ± 0.1 [0.004]

Hermetically Sealed Reflective Coaxial SP2T Switch 0.01 - 6GHz

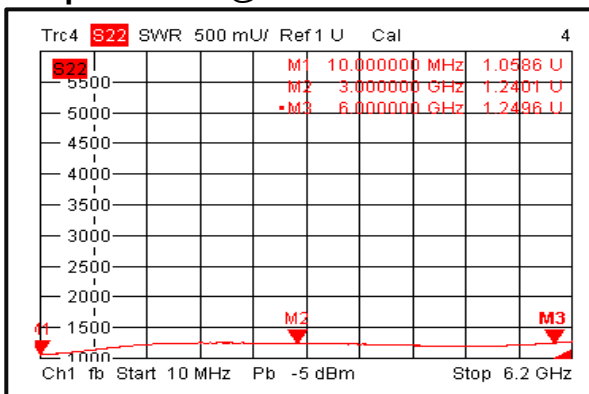
Insertion Loss @+25°C



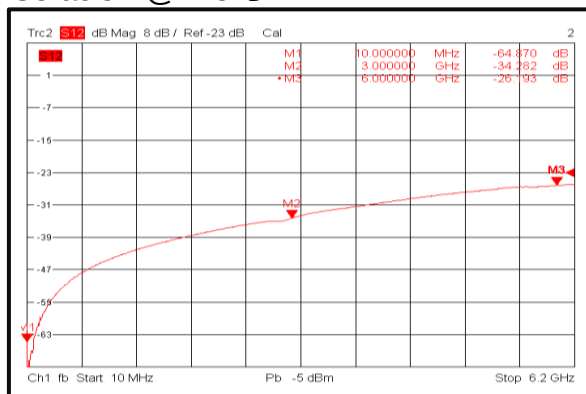
Input VSWR @+25°C



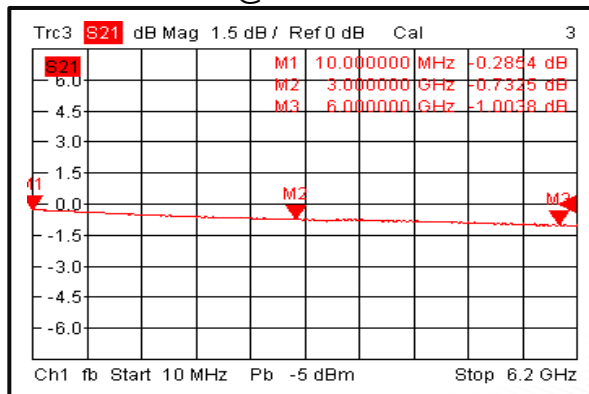
Output VSWR @+25°C



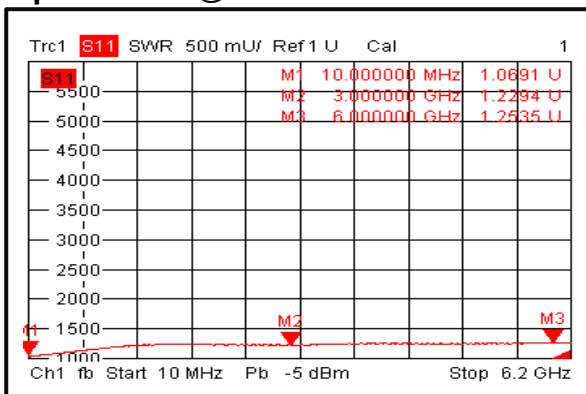
Isolation @+25°C



Insertion Loss @-40°C

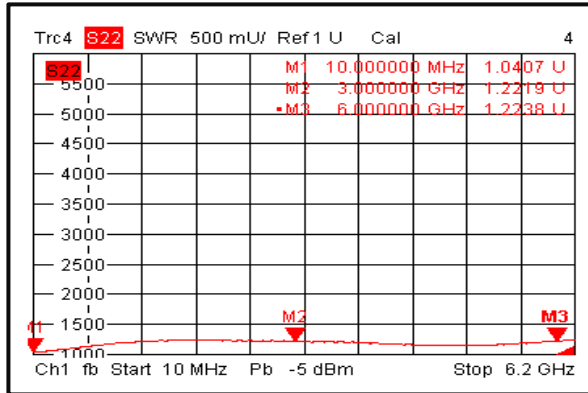


Input VSWR @-40°C

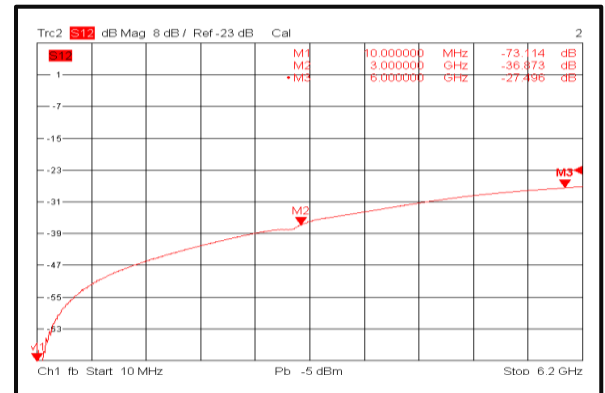


Hermetically Sealed Reflective Coaxial SP2T Switch 0.01 - 6GHz

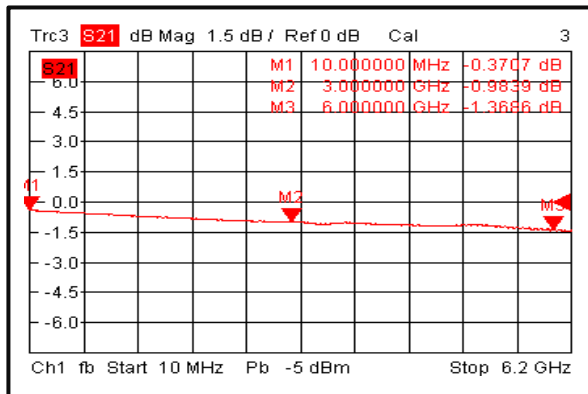
Output VSWR @-40°C



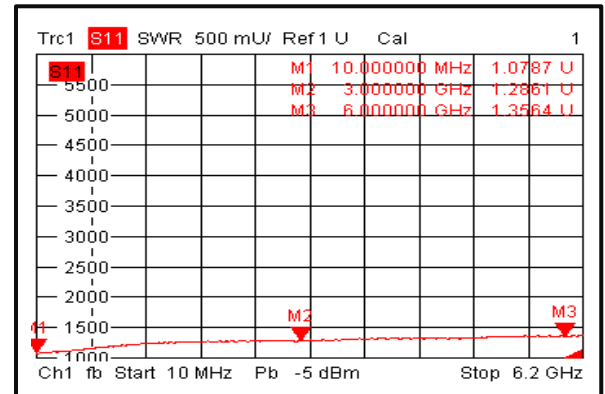
Isolation @-40°C



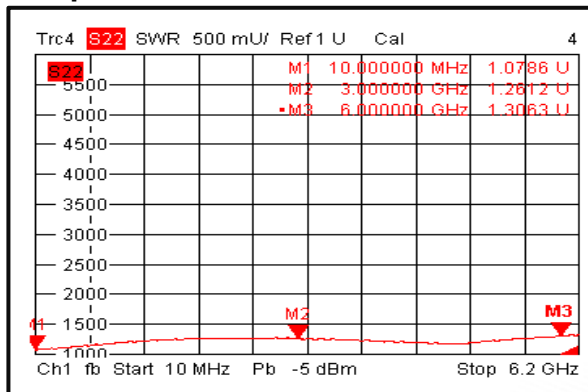
Insertion Loss @+85°C



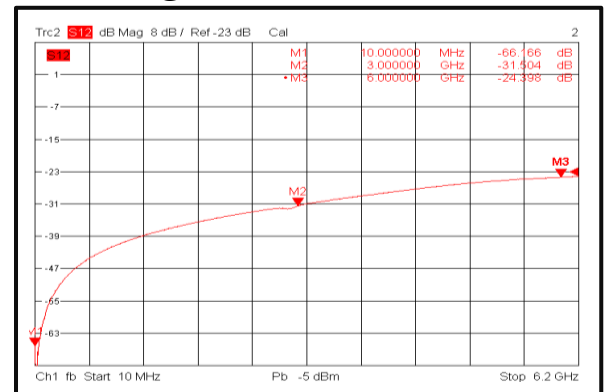
Input VSWR @+85°C



Output VSWR @+85°C

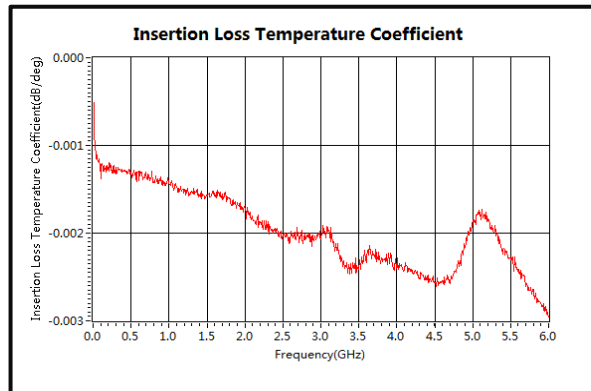


Isolation @+85°C

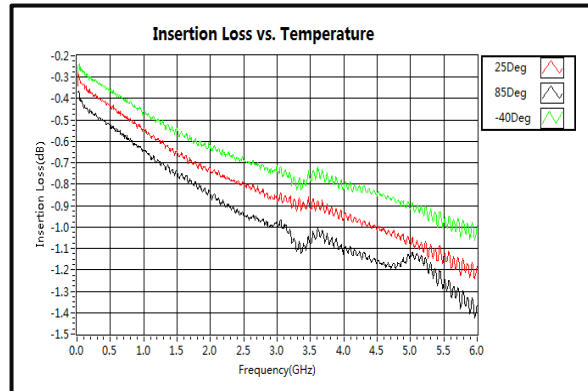


Hermetically Sealed Reflective Coaxial SP2T Switch 0.01 - 6GHz

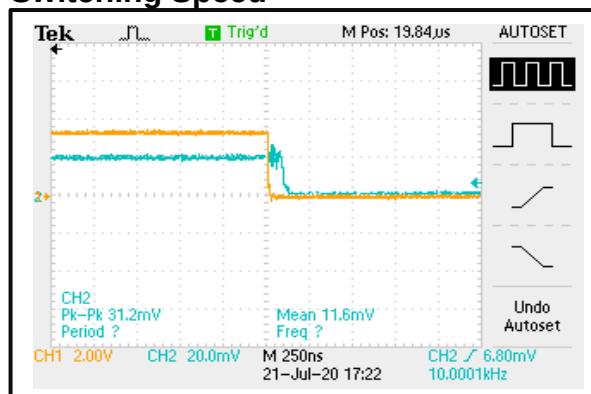
Insertion Loss Temperature Coefficient



Insertion Loss vs. Temperature



Switching Speed



Switching Speed

