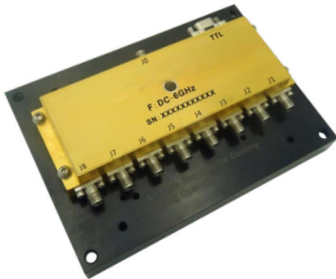


Reflective Coaxial SP8T Switch DC- 6GHz



Features

- Ultra Wide Band Operation DC-6GHz
- 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

Parameter	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range		DC-3			3-6		GHz
Insertion Loss		2.8	3.8		3.8	4.5	dB
Insertion Loss Temperature Coefficient		0.003			0.003		dB/ ° C
Isolation	40	45		35	40		dB
Input VSWR		1.5	2.0		1.5	1.8	: 1
Output VSWR		1.5	2.0		1.5	1.8	: 1
RF Input Power (pulsed, 10% Duty Cycle, 20us pulse width)			100			100	W
DC Power Dissipation		8.5			8.5		W
0.1dB Compression Point (P0.1dB)		50			50		dBm
IIP3		55			55		dBm
Switching Speed			250 Typ.				ns
Weight		24 Max. (Including Heat sink)					Ounces
Impedance			50				Ω
Bias Current (+12V)		130 Typ. 200 Max.					mA
Input / Output Connectors			SMA-Female				
Finish			Gold Plated				
Material			Aluminum				
Sealing			Hermetically Sealed (Optional)				

Reflective Coaxial SP8T Switch DC- 6GHz

Absolute Maximum Ratings

Biasing	+12V±10%
---------	----------

Truth Table

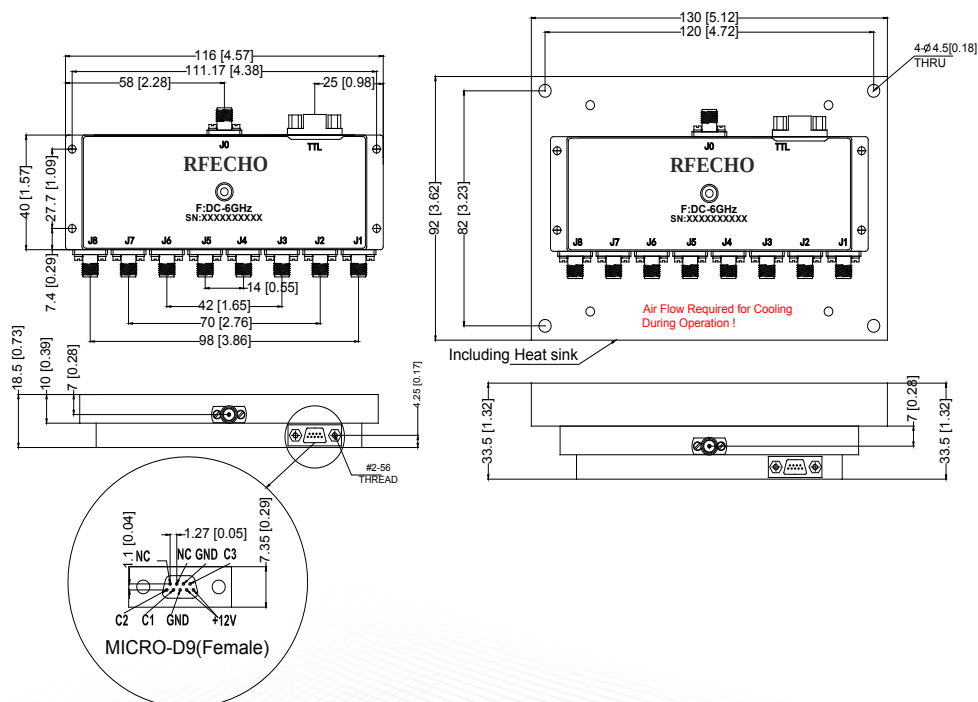
TTL Control Voltage THRESHOLD			Low(0)=0~0.8V
			High(1)=2.8~5V
Control Input TTL			Signal Path State
C3	C2	C1	
0	0	0	J0-J1
0	0	1	J0-J2
0	1	0	J0-J3
0	1	1	J0-J4
1	0	0	J0-J5
1	0	1	J0-J6
1	1	0	J0-J7
1	1	1	J0-J8

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

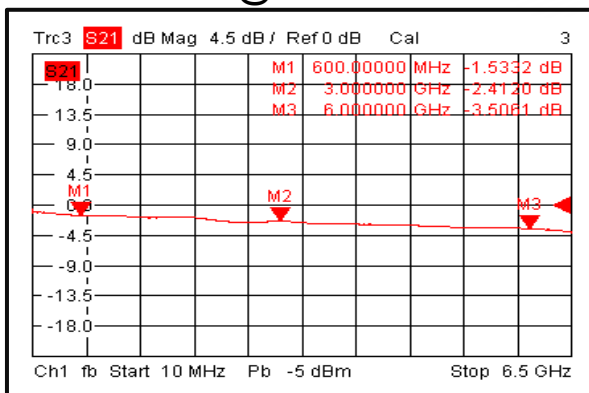
Product Dimensions



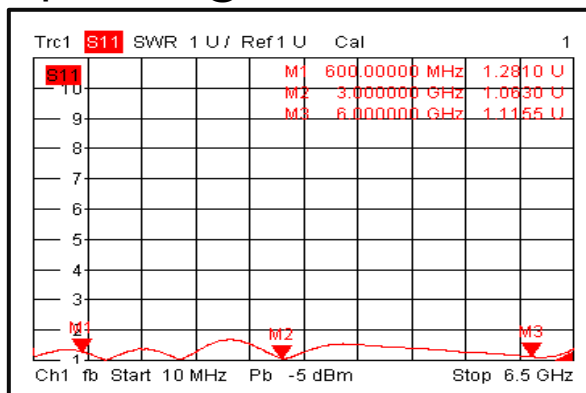
All Dimensions in mm (inches) Housing Tolerances
±0.2 (0.008)

Reflective Coaxial SP8T Switch DC- 6GHz

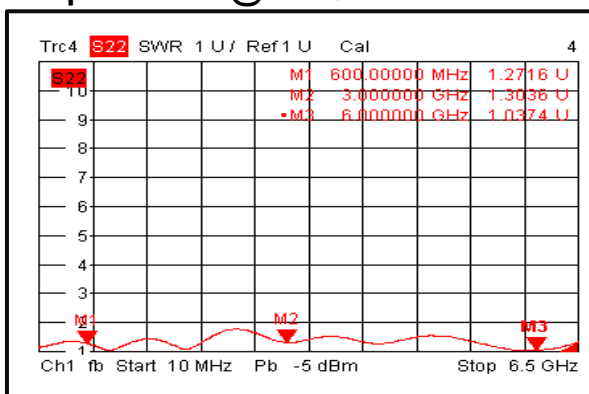
Insertion Loss @+25°C



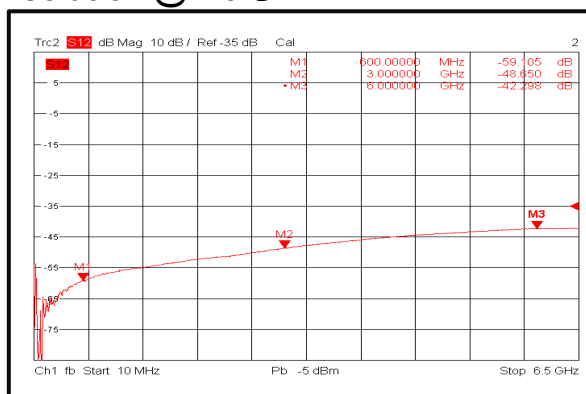
Input VSWR @+25°C



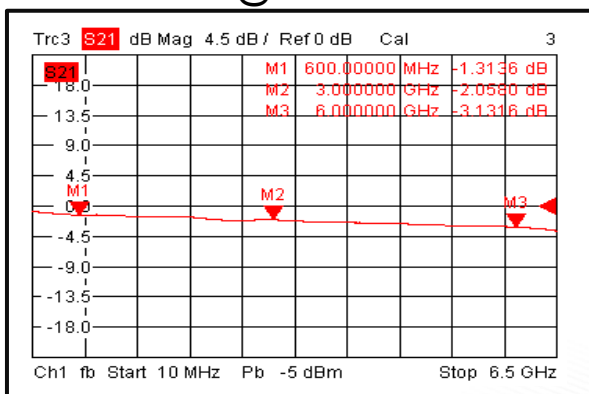
Output VSWR @+25°C



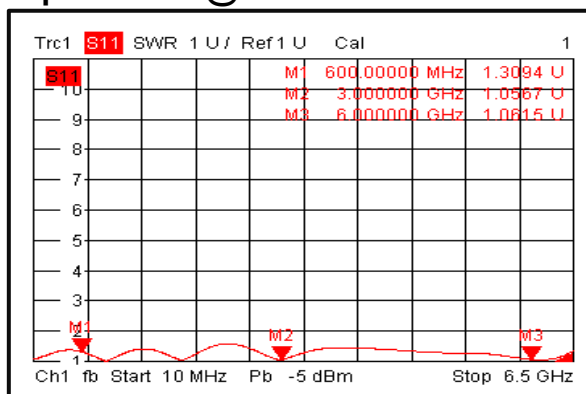
Isolation @+25°C



Insertion Loss @-40°C

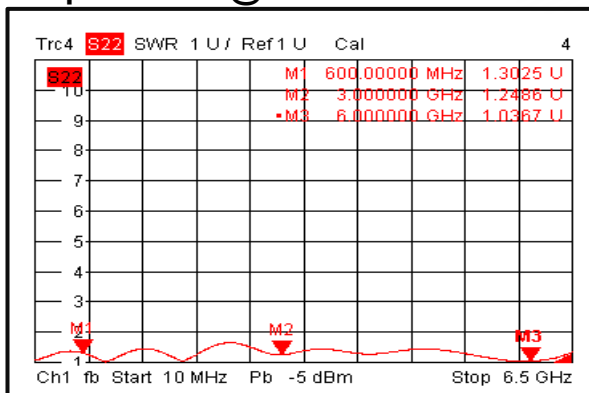


Input VSWR @-40°C

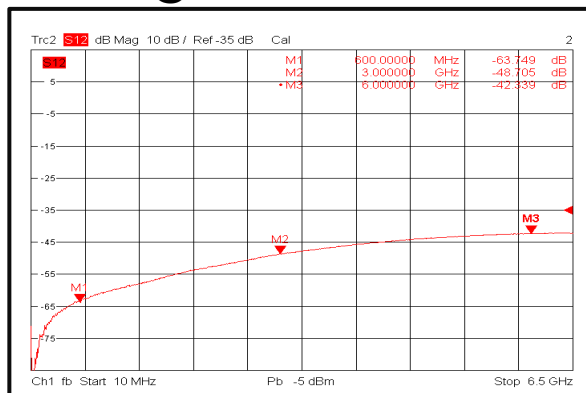


Reflective Coaxial SP8T Switch DC- 6GHz

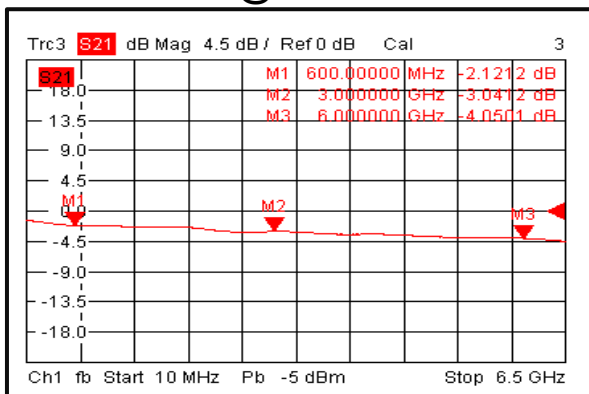
Output VSWR @-40°C



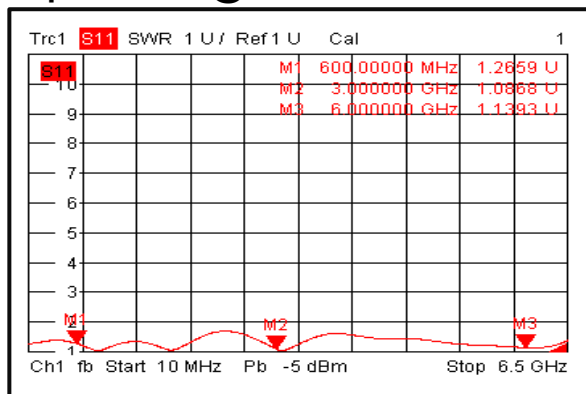
Isolation @-40°C



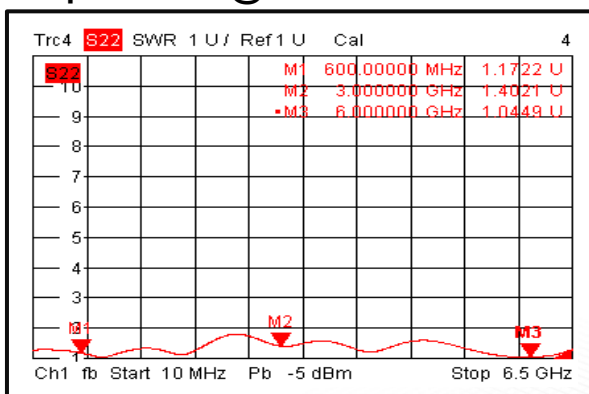
Insertion Loss @+85°C



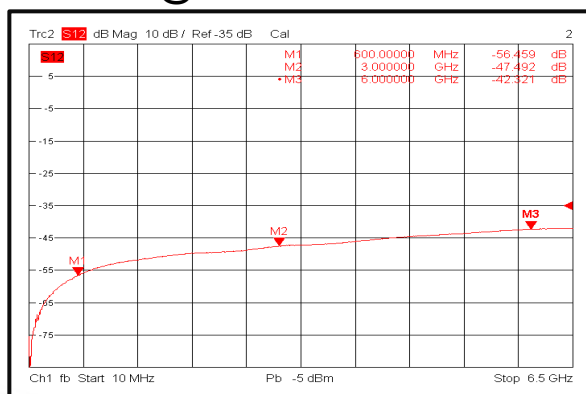
Input VSWR @+85°C



Output VSWR @+85°C

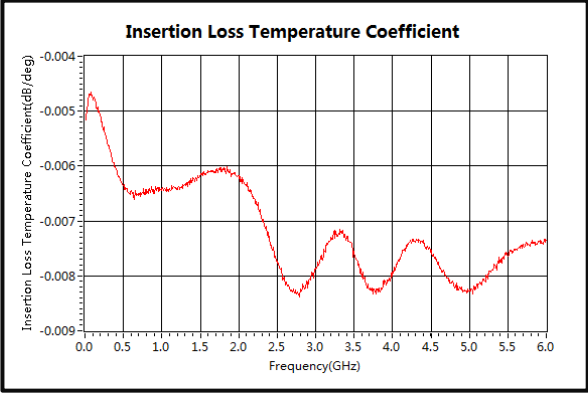


Isolation @+85°C

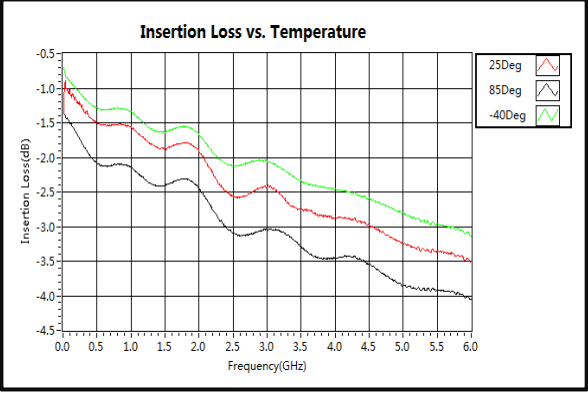


Reflective Coaxial SP8T Switch DC- 6GHz

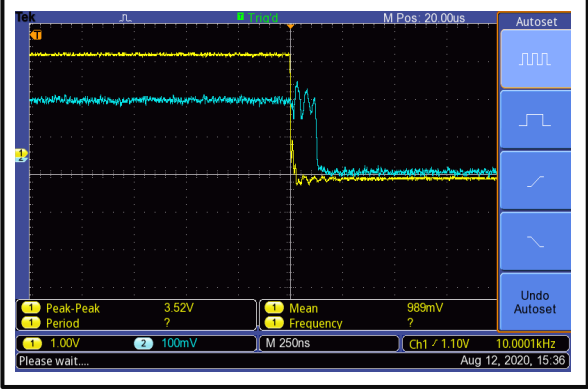
Insertion Loss Temperature Coefficient



Insertion Loss vs. Temperature



Switching Speed



Switching Speed

