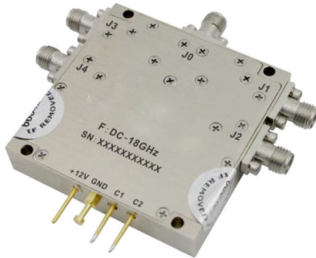


Reflective DC-18GHz Coaxial SP4T Switch



Features

- Wide Band Operation DC-18GHz
- 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	Min	Typ.	Max	Units
Frequency Range		DC-6			6-12			12-18		GHz
Insertion Loss		1.9	2.5		2.5	3		3.6	4	dB
Insertion Loss Temperature Coefficient		0.003			0.003			0.003		dB/ ° C
Isolation	30	40		25	30		24	25		dB
Input VSWR		1.2	1.5		1.6	1.7		1.7	2	: 1
Output VSWR		1.2	1.5		1.7	1.8		1.6	2	: 1
RF Input power (CW)			10			10			10	W
DC Power Dissipation (CW)		3			4			5		W
0.1dB Compression P0.1dB		40			40			40		dBm
IIP3		55			55			55		dBm
Switching Speed			100			100			100	ns
Weight					4					ounces
Impedance					50					Ω
Bias Current (+12V)					150					mA
Input / Output Connectors					SMA-Female					
Finish					Nickel Plated					
Material					Aluminum					
Sealing					Hermetically Sealed (Optional)					

Reflective DC-18GHz Coaxial SP4T Switch

Absolute Maximum Ratings

Biasing	+12V±10%
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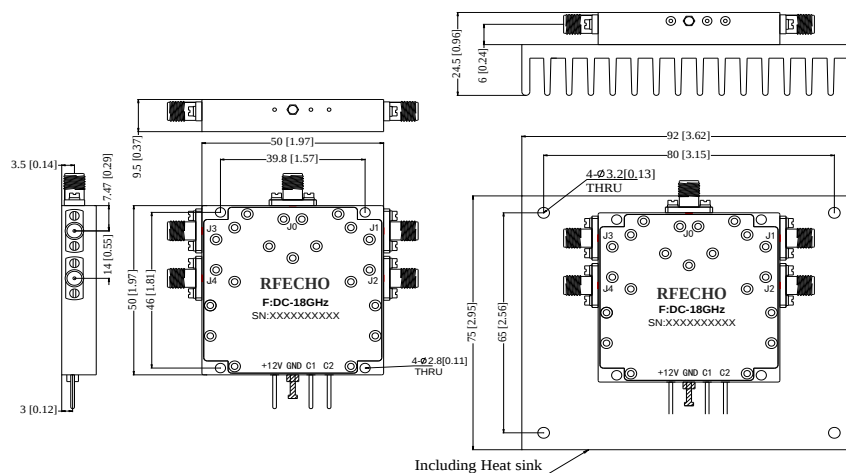
Truth Table

TTL Control Voltage THRESHOLD		Low(0)=0-0.8V
		High(1)=2.8-5V
Control Input TTL		Signal Path State
c1	c2	
0	0	J0-J1
0	1	J0-J2
1	0	J0-J3
1	1	J0-J4
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

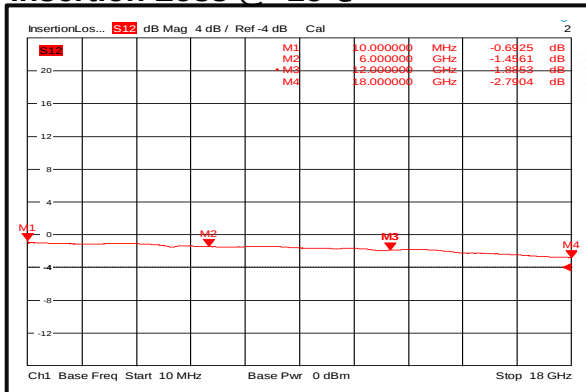
Product Dimensions



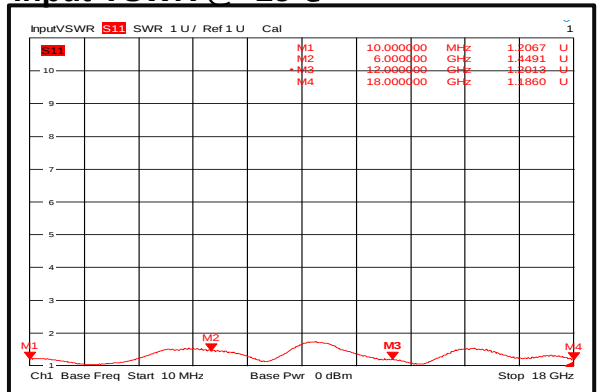
All Dimensions in mm (inches) Housing Tolerances ± 0.1 [0.004]

Reflective DC-18GHz Coaxial SP4T Switch

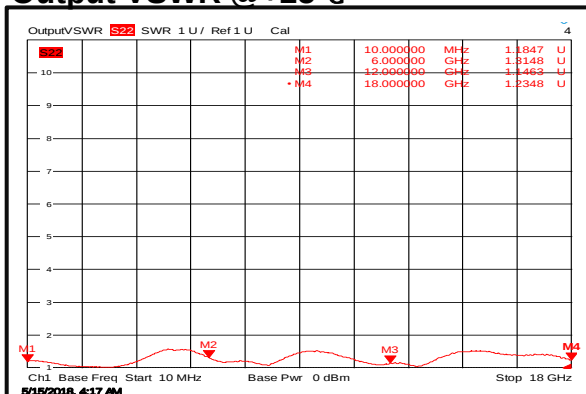
Insertion Loss @+25°C



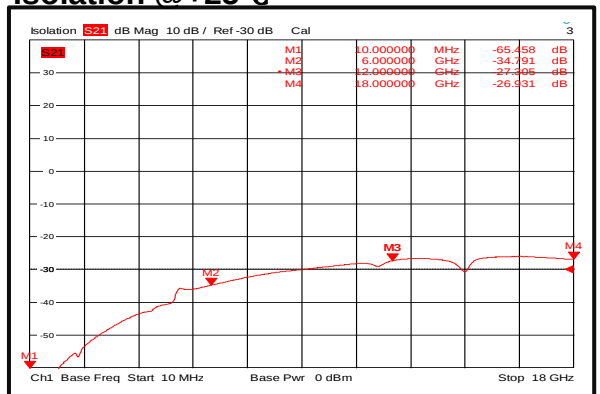
Input VSWR @+25°C



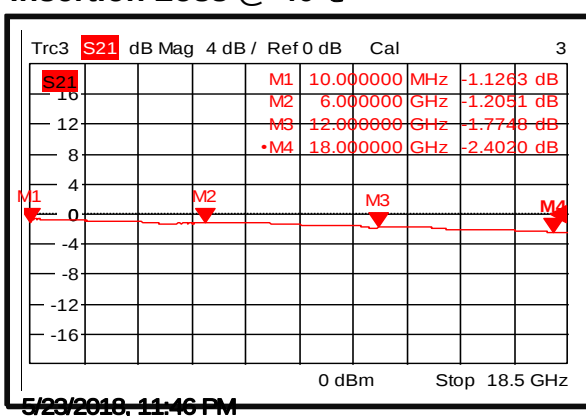
Output VSWR @+25°C



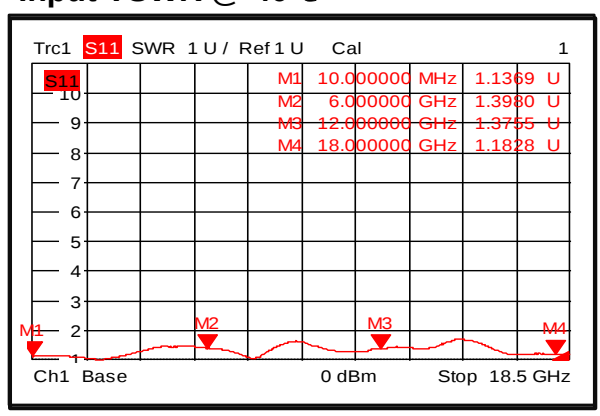
Isolation @+25°C



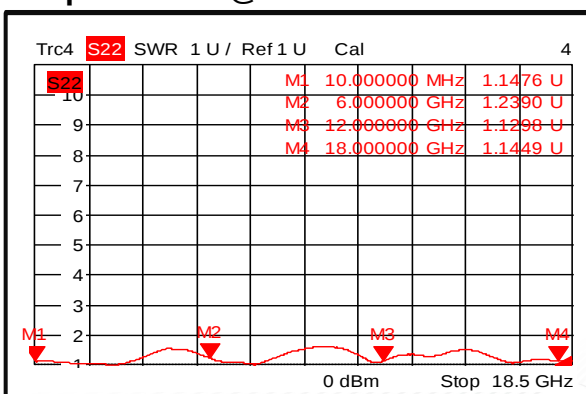
Insertion Loss @-40°C



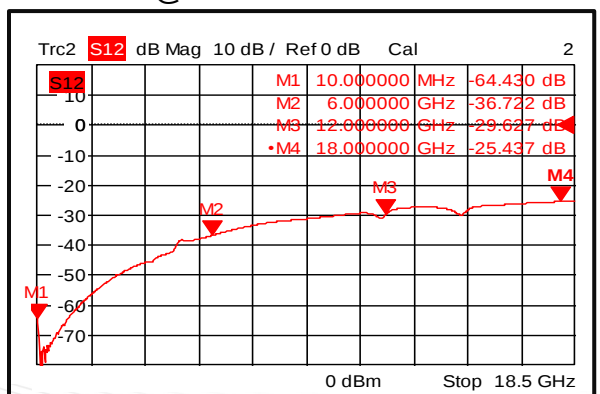
Input VSWR @-40°C



Output VSWR @-40°C

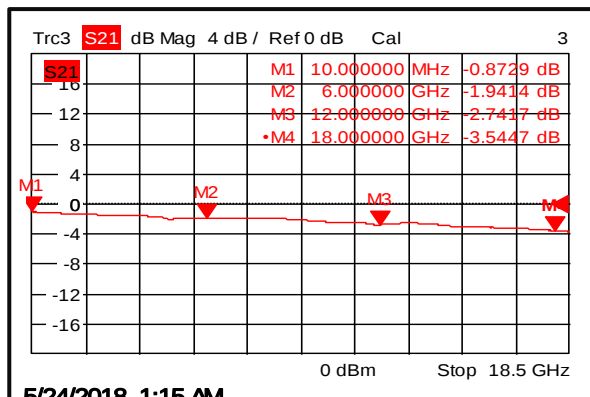


Isolation @-40°C

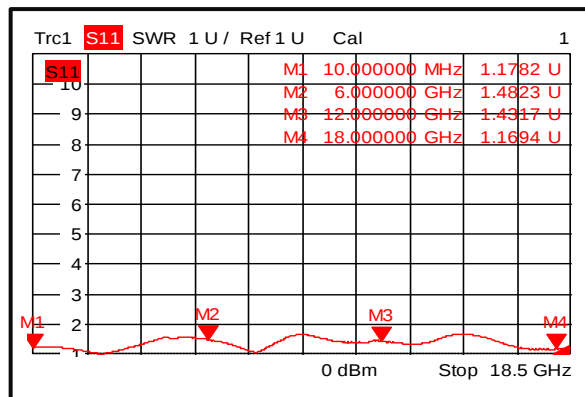


Reflective DC-18GHz Coaxial SP4T Switch

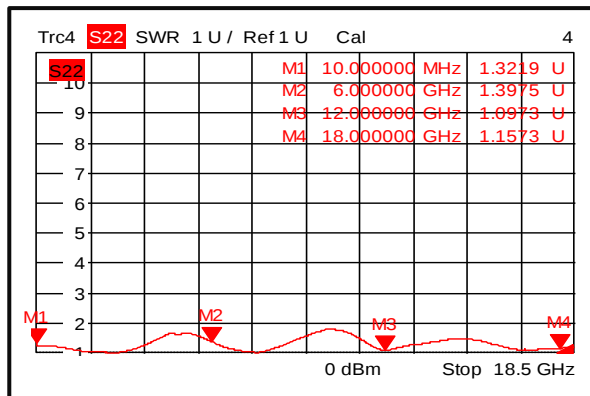
Insertion Loss @+85°C



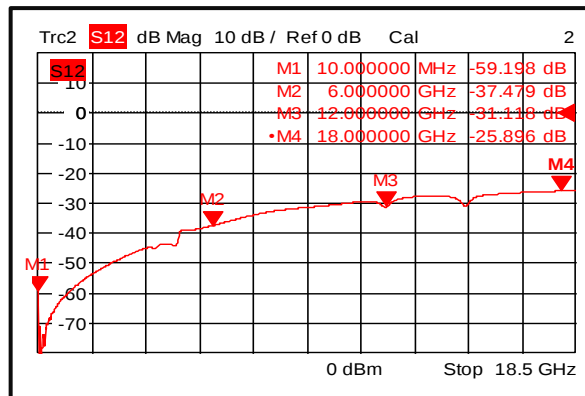
Input VSWR @+85°C



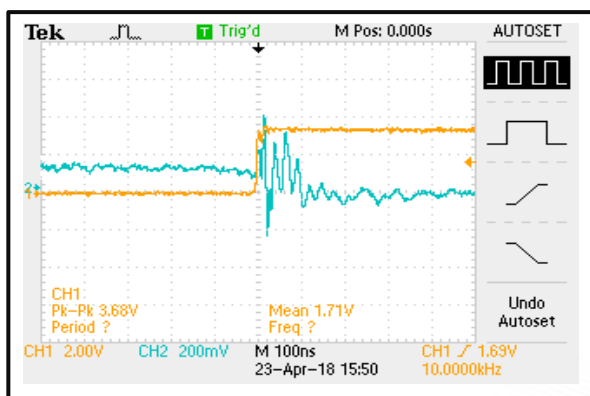
Output VSWR @+85°C



Isolation @+85°C



Switching Speed



Switching Speed

