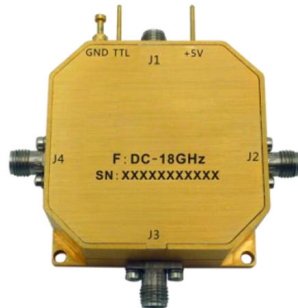


Wide Band Coaxial DPDT Switch DC - 18GHz



Features

- Ultra Wide Band Operation DC-18GHz
- TTL compatible driver included
- Fast Switching Speed
- Low Insertion Loss and High Isolation

Applications

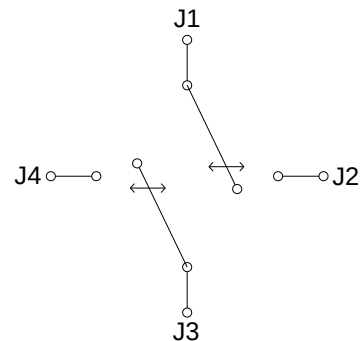
- Wireless Infrastructure
- Test and measurement Instrument
- Fiber Optics
- 5G Communication

Parameter	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range (Note 1)		DC-6		6-12			12-18			GHz
Insertion Loss		1.5	2.2		2.2	3.0		3.5	4.0	dB
Insertion Loss Temperature Coefficient		0.003			0.003			0.003		dB/ ° C
Isolation	40	45		40	45		40	45		dB
Input VSWR		1.3	1.8		1.6	1.8		1.6	2.0	: 1
Output VSWR		1.3	1.8		1.7	1.8		1.6	2.0	: 1
Max RF Input power (Note 2)			40			40			40	dBm
DC Power Dissipation		0.8			0.8			0.8		W
0.1dB Compression Point (P0.1dB)		40			40			40		dBm
IIP3		48			48			48		dBm
Switching Speed					500 Typ.					ns
Weight					7.0Max.					ounce s
Impedance					50					Ω
Bias Current (+5V)					150 Typ.					mA
Input / Output Connectors					SMA-Female					
Finish					Gold Plated					
Material					Aluminum					
Sealing					Hermetically Sealed (Optional)					

Absolute Maximum Ratings	
Biasing	+5V±10%

Truth Table		
TTL Control Voltage THRESHOLD	Low(0)=0~0.8V	
	High(1)=2.8~5V	
Control Input TTL	Signal Path State	
0	J1~J2(IL state) J3~J4(IL state)	J1~J4(ISO state) J2~J3(ISO state)
1	J1~J2(ISO state) J3~J4(ISO state)	J1~J4(IL state) J2~J3(IL state)
Control Pin Customization available upon request		

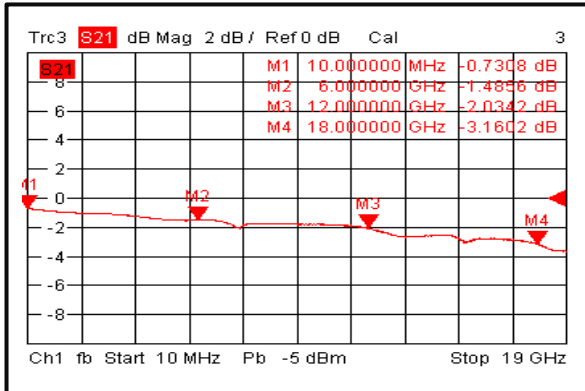
Environmental Specifications	
Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°c, 95%RH at 40°c
Shock	20G for 11msec half sine wave,3 axis both directions



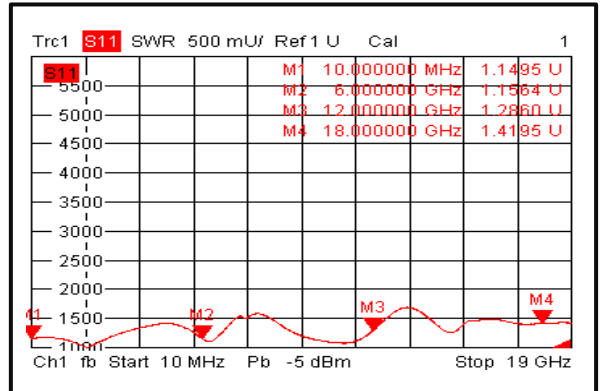
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Wide Band Coaxial DPDT Switch DC - 18GHz

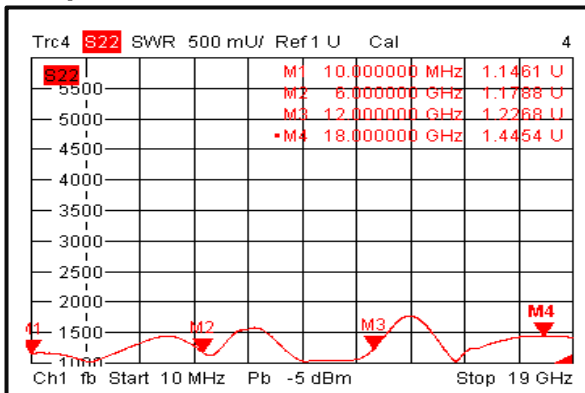
Insertion Loss @+25°C



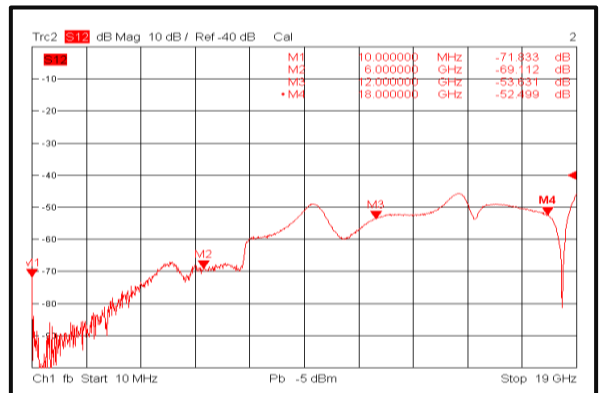
Input VSWR @+25°C



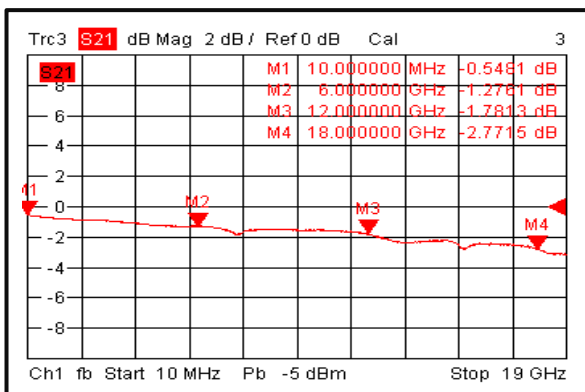
Output VSWR @+25°C



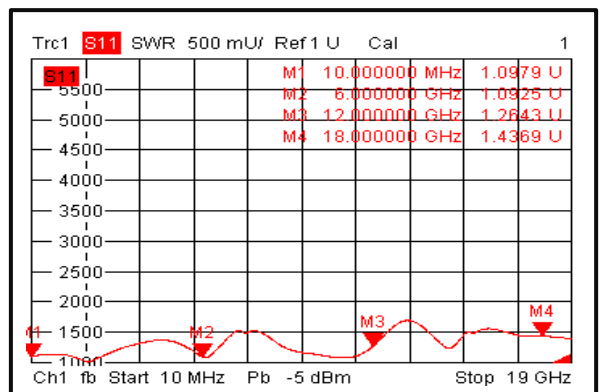
Isolation @+25°C



Insertion Loss @-40°C

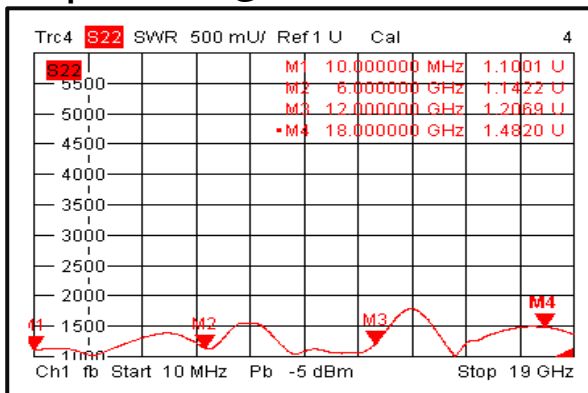


Input VSWR @-40°C

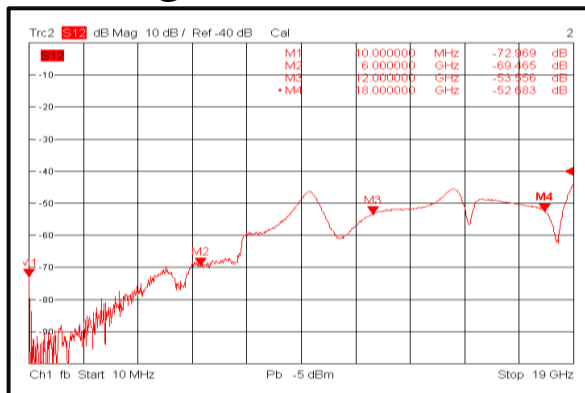


Wide Band Coaxial DPDT Switch DC - 18GHz

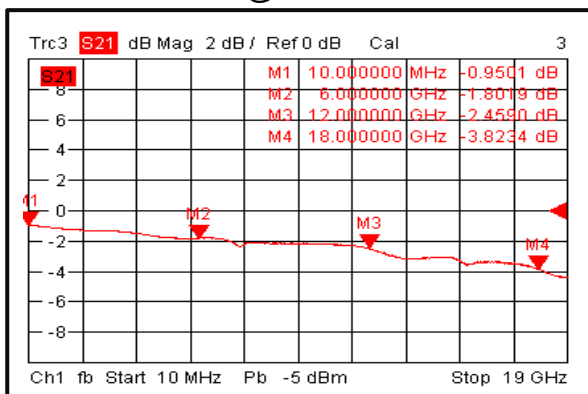
Output VSWR @-40°C



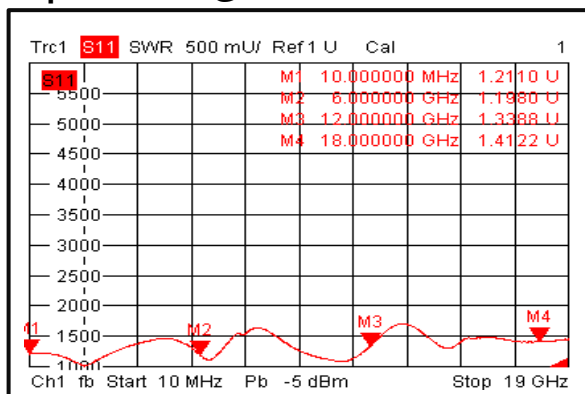
Isolation @-40°C



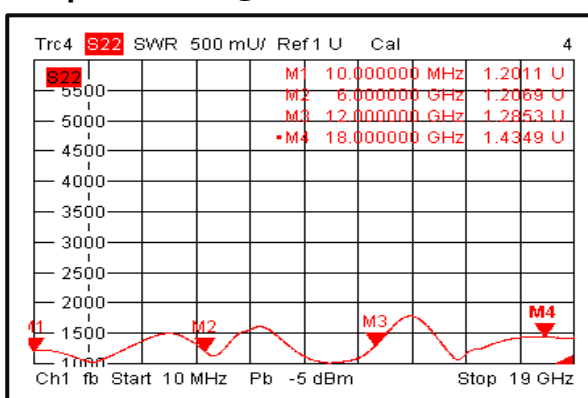
Insertion Loss @+85°C



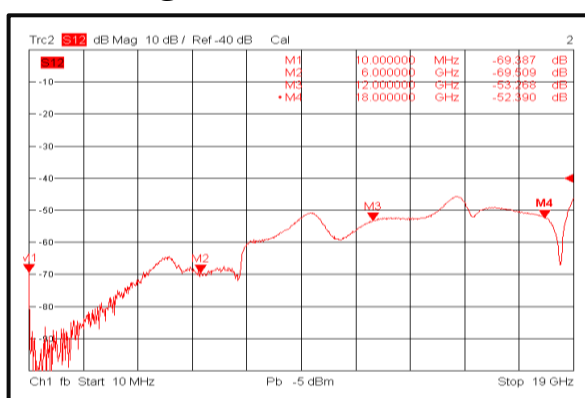
Input VSWR @+85°C



Output VSWR @+85°C

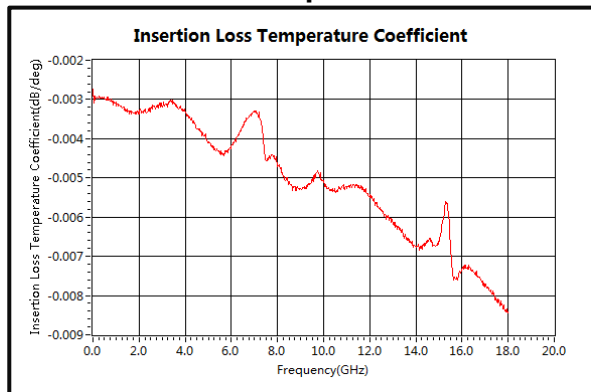


Isolation @+85°C

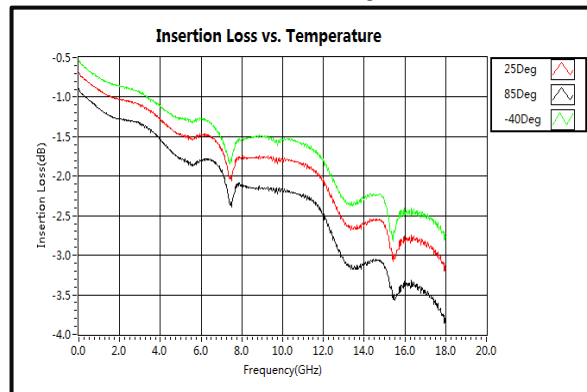


Wide Band Coaxial DPDT Switch DC - 18GHz

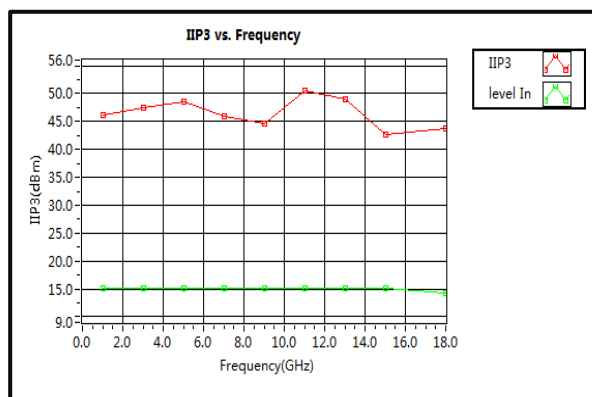
Insertion Loss Temperature Coefficient



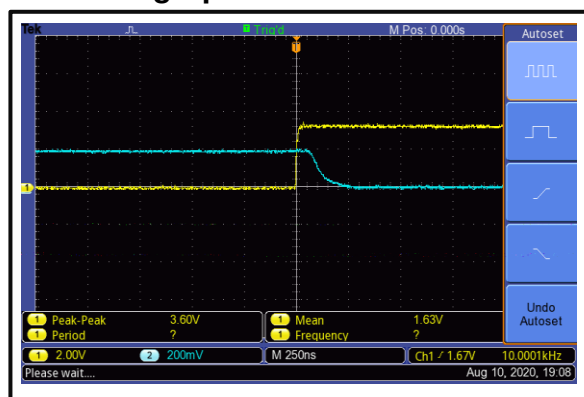
Insertion Loss vs. Temperature



IIP3



Switching Speed



Switching Speed

