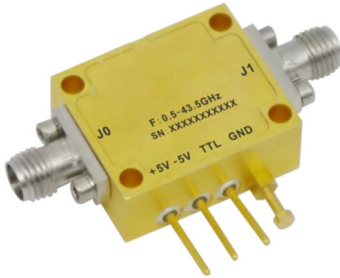


Absorptive Coaxial SPST Switch 0.5-43.5GHz



Features

- Ultra Wide Band Operation
0.5-43.5GHz
- TTL compatible driver included
- Fast Switching Speed
- Customization available upon request

Applications

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

Parameters	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range		0.5-8			8-26.5			26.5-43.5		GHz
Insertion Loss		2.5	3.0		3.5	4.0		4.8	5.5	dB
Insertion Loss Temperature Coefficient		0.003			0.003			0.003		dB/ ° C
Isolation (J0→J1)	70	80		60	65		55	60		dB
Input VSWR		2.0	2.5		2.0	2.5		2.0	2.5	: 1
Output VSWR		2.0	2.5		2.0	2.5		2.0	2.5	: 1
RF Input Power (CW)			23			23			23	dBm
DC Power Dissipation		0.6			0.6			0.6		W
0.1dB Compression Point (P0.1dB)		23			23			23		dBm
IIP3		42			40			38		dBm
Switching Speed					100 Max.					ns
Weight					0.55 Max.					ounces
Impedance					50					Ω
Bias Current (+5V/-5V)					80/70 Max.					mA
Input / Output Connectors					2.92mm-Female					
Finish					Gold Plated					
Material					Aluminum					
Sealing					Hermetically Sealed (Optional)					

Absorptive Coaxial SPST Switch 0.5-43.5GHz

Absolute Maximum Ratings

Biasing	+5V±10%/-5V±10%
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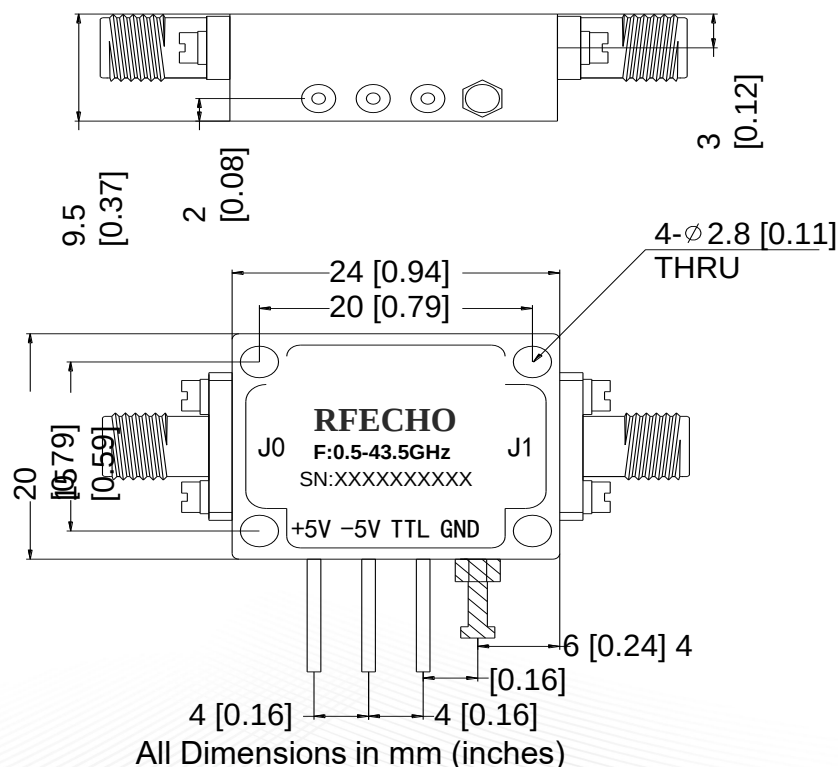
Truth Table

TTL Control Voltage THRESHOLD	Low(0)=0~0.8V
	High(1)=2.8~5V
Control Input TTL	State
0	ON
1	OFF
Control Pin Customization available upon request	

Environmental Specifications

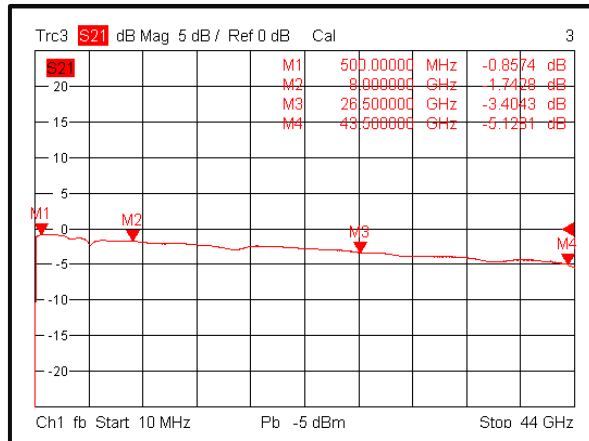
Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH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

Product Dimensions

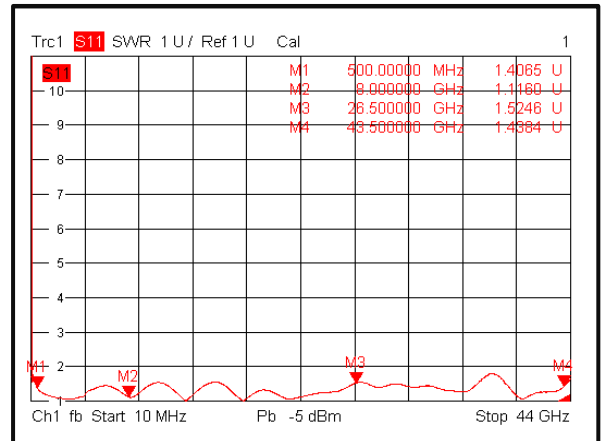


Absorptive Coaxial SPST Switch 0.5-43.5GHz

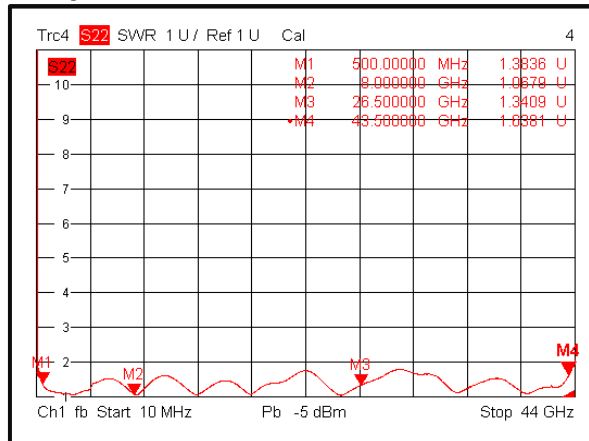
Insertion Loss @+25°C



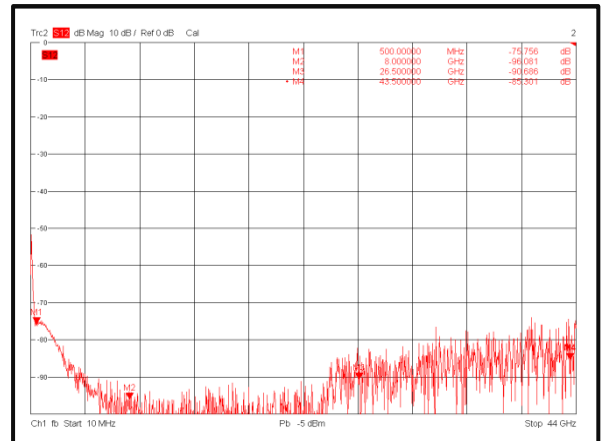
Input VSWR @+25°C



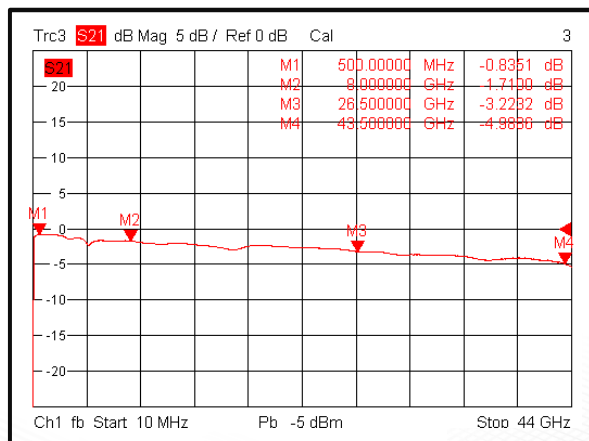
Output VSWR @+25°C



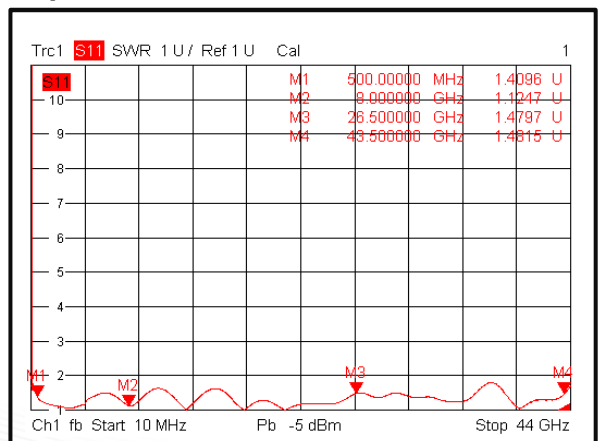
Isolation @+25°C



Insertion Loss @-40°C

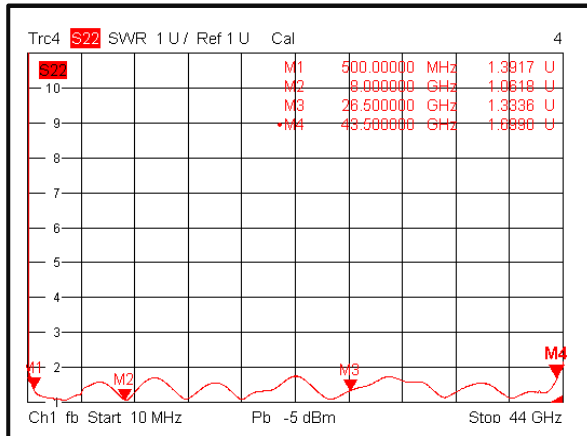


Input VSWR @-40°C

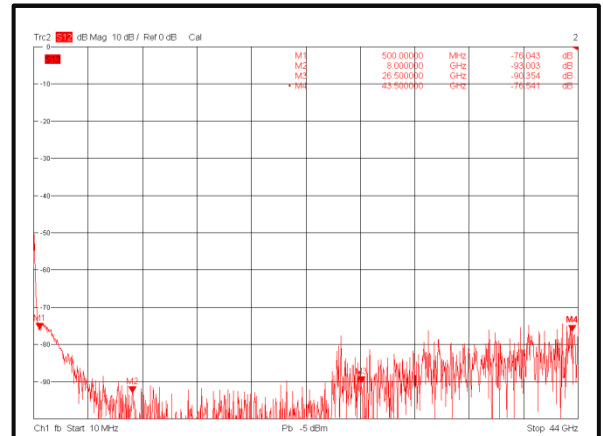


Absorptive Coaxial SPST Switch 0.5-43.5GHz

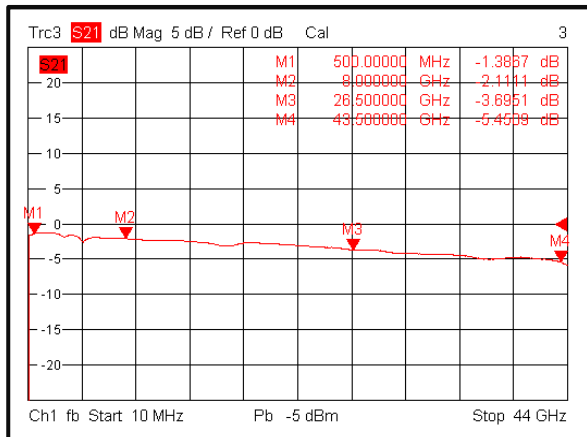
Output VSWR @-40°C



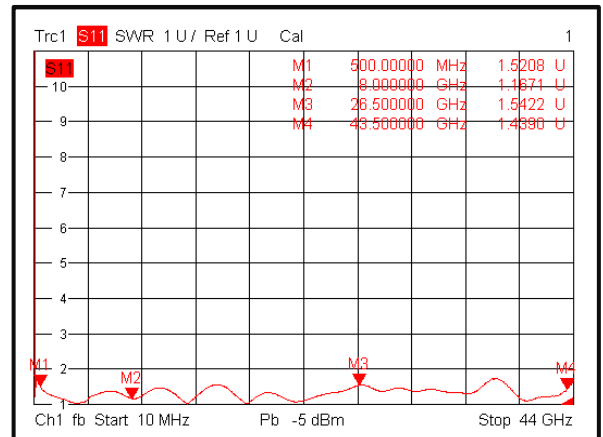
Isolation @-40°C



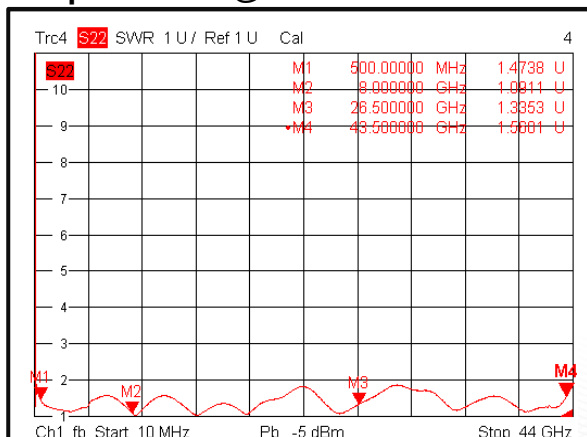
Insertion Loss @+85°C



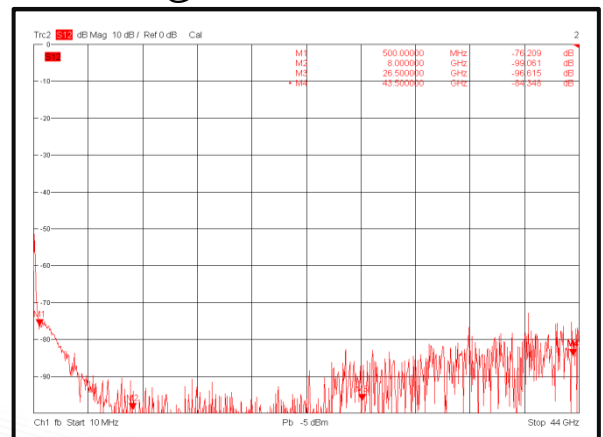
Input VSWR @+85°C



Output VSWR @+85°C

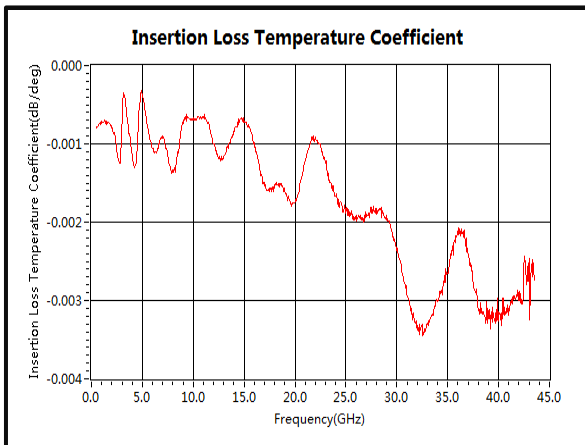


Isolation @+85°C

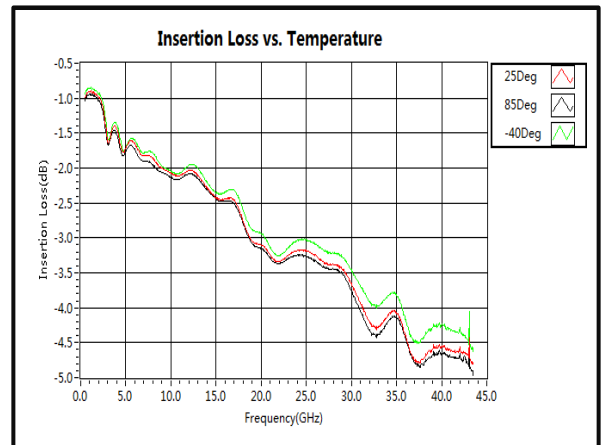


Absorptive Coaxial SPST Switch 0.5-43.5GHz

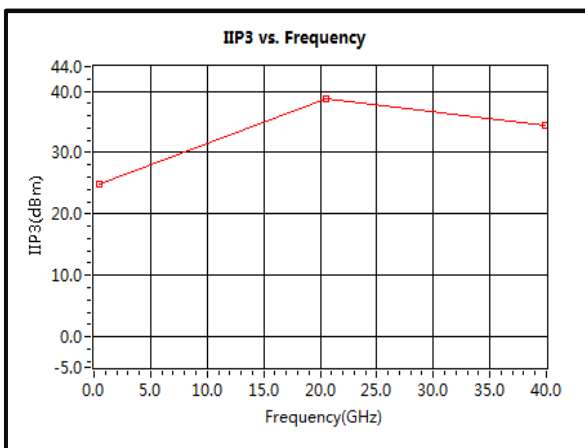
Insertion Loss Temperature Coefficient



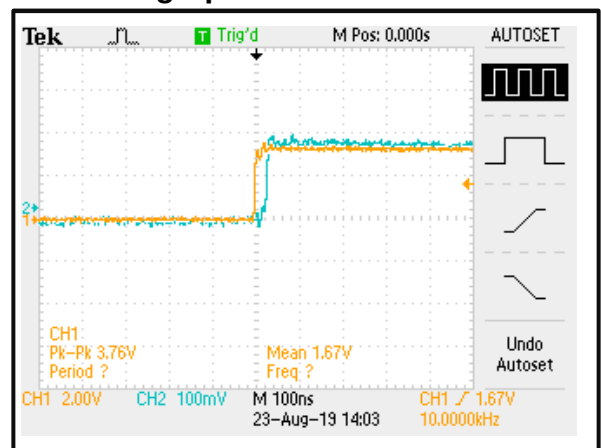
Insertion Loss vs. Temperature



IIP3



Switching Speed



Switching Speed

