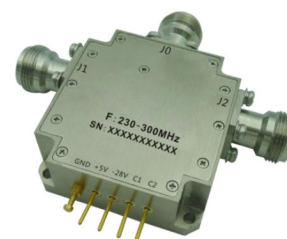




Reflective Coaxial SP2T Switch 230 – 300MHz

Features

- Wide Band Operation 230-300MHz
- TTL compatible driver included
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- High Power Cold Switching
- Customization available upon request



Typical Applications

- Wireless Infrastructure
- 5G communication
- Test and measurement Instrument

RF Microwave & VSAT
Fiber Optics

Parameter	Min.	Typ.	Max.	Units
Frequency Range	230 - 300			MHz
Insertion Loss		0.4	0.6	dB
Insertion Loss Temperature Coefficient		0.003		dB/ ° C
Isolation	50	65		dB
Input VSWR		1.2	1.3	: 1
Output VSWR		1.2	1.3	: 1
Input Peak Power (50% duty cycle,125us pulse width)			125	W
DC Power Dissipation		2		W
0.1dB Compression Point (P0.1dB)		51		dBm
IIP3		50		dBm
Switching Speed			1.2	us
Weight	5.29			ounces
Impedance	50			Ω
Bias Current(+5V / -28V)	250/50			mA
Input / Output Connectors	N - Female			
Finish	Nickel Plated			
Material	Aluminum			
Sealing	Hermetically Sealed (Optional)			



Absolute Maximum Ratings

Biasing	+5V $\pm$ 10%/-28V $\pm$ 10%
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Ordering Information

Part No.	Description
DBSR0200230030A	SP2T 230-300MHz PIN Diode Switch

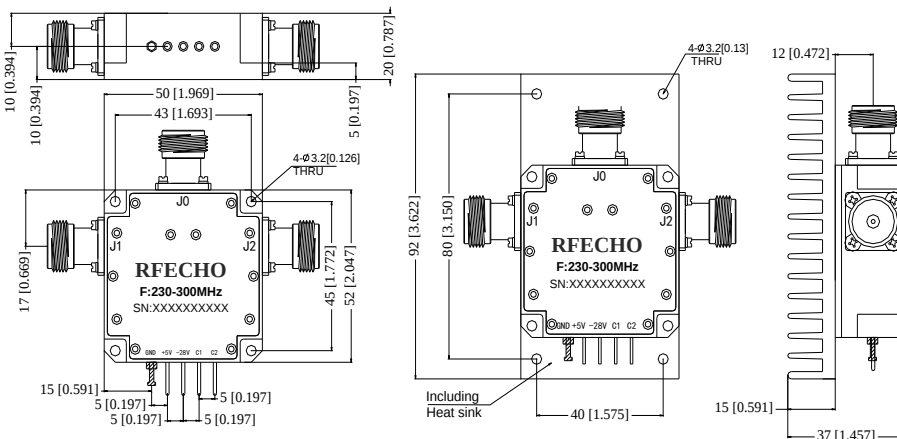
Environmental Specifications

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

Outline Drawing:

All Dimensions in mm (inches)

Housing Tolerances ± 0.2 [0.008]

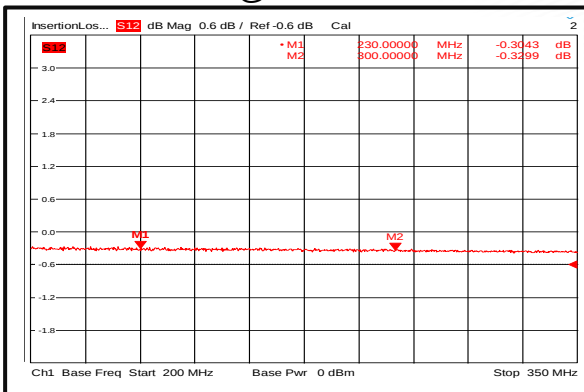


Truth Table

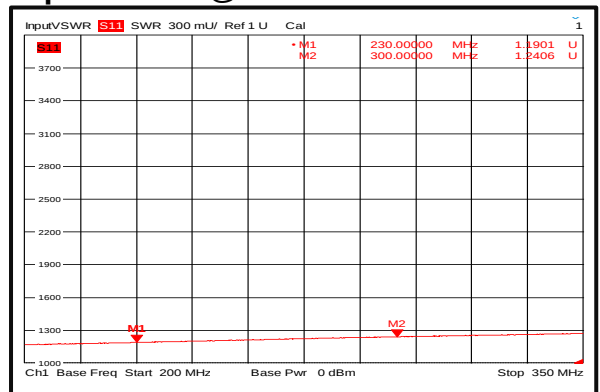
TTL Control Voltage THRESHOLD		Low(0)=0~0.8V
		High(1)=2.8~5V
Control Input TTL		Signal Path State
C2	C1	
0	0	OFF
0	1	J0-J1
1	0	J0-J2
1	1	Not Used
Control Pin Customization available upon request		



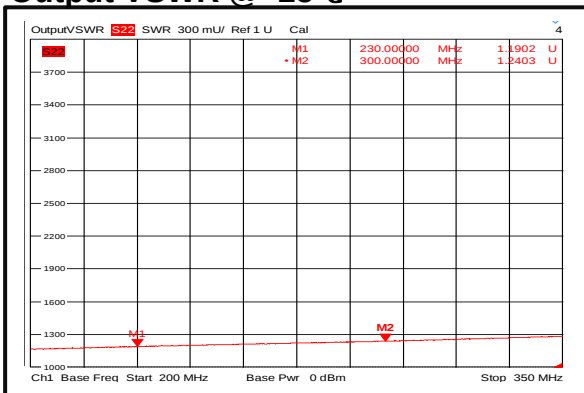
Insertion Loss @+25°C



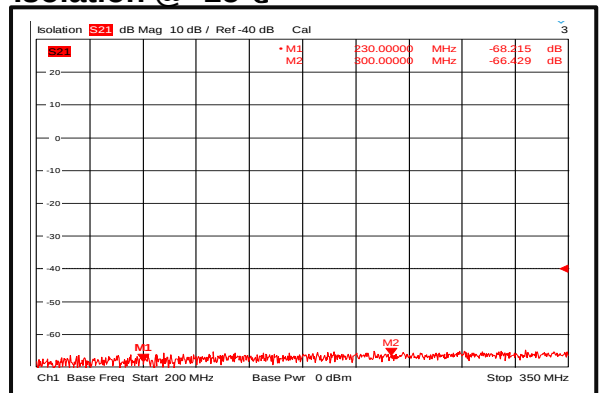
Input VSWR @+25°C



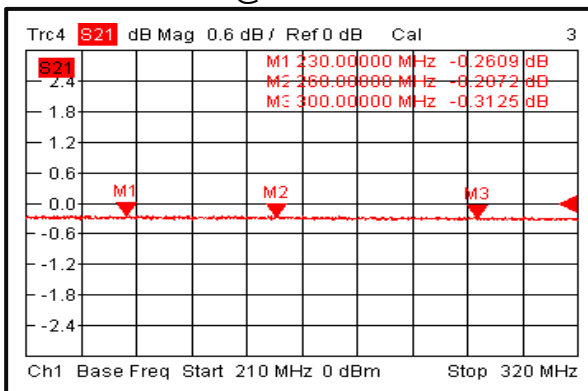
Output VSWR @+25°C



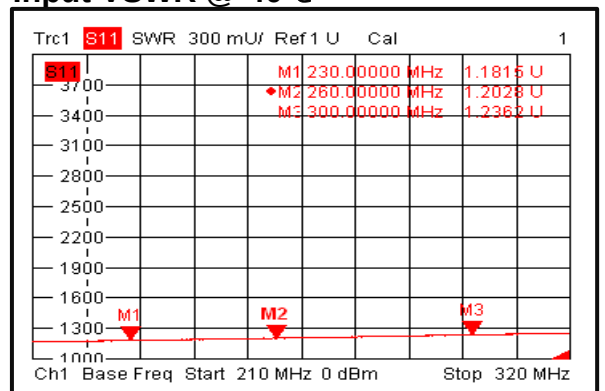
Isolation @+25°C



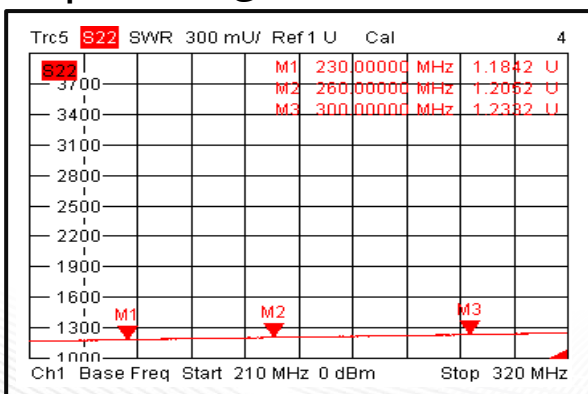
Insertion Loss @-40°C



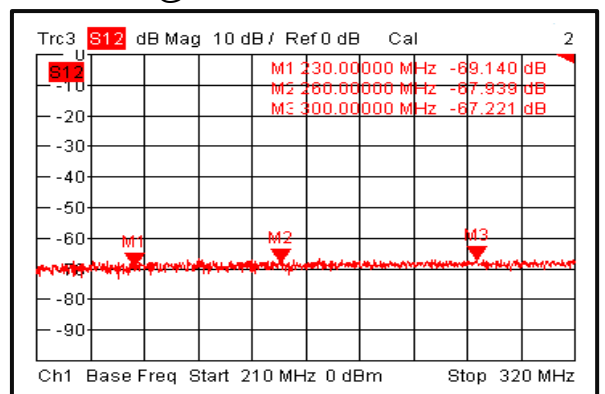
Input VSWR @-40°C



Output VSWR @-40°C

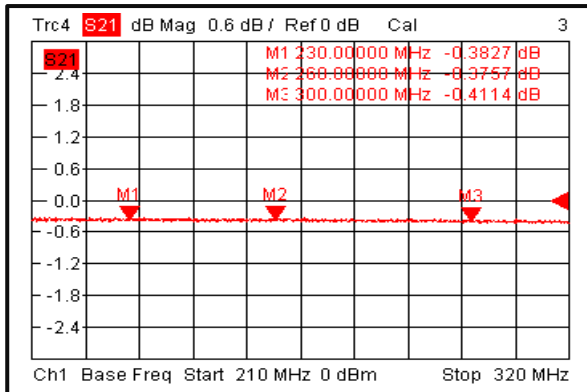


Isolation @-40°C

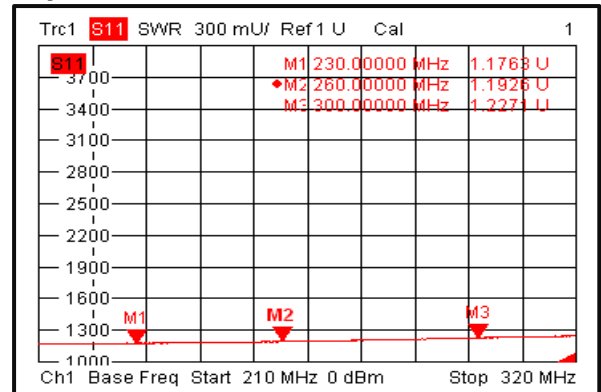




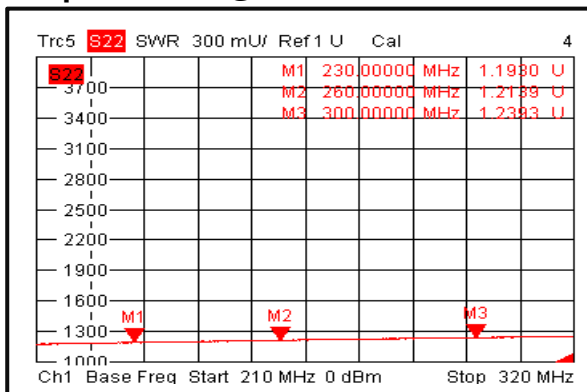
Insertion Loss @+60°C



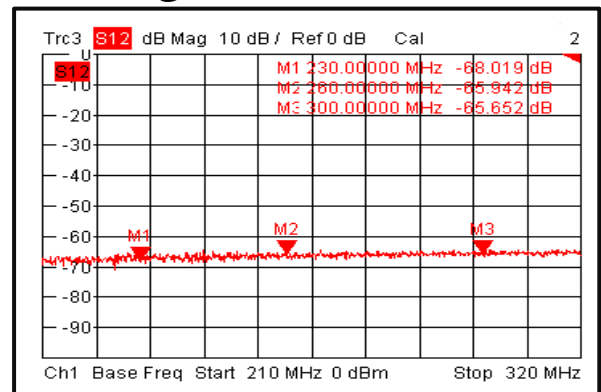
Input VSWR @+60°C



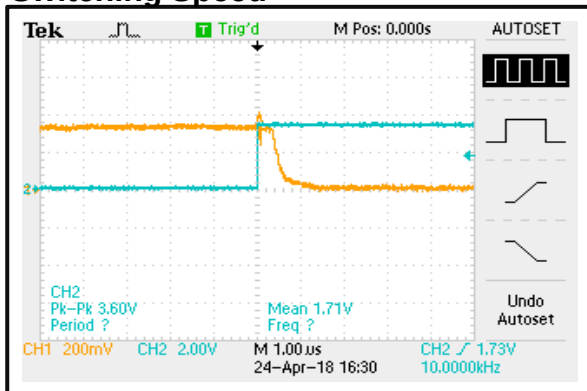
Output VSWR @+60°C



Isolation @+60°C



Switching Speed



Switching Speed

