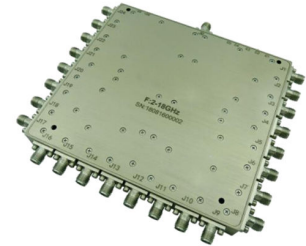




Absorptive 2-18GHz Coaxial SP24T Switch

Features

- Wide Band Operation 2-18GHz
- TTL compatible driver included
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Customization available upon request



Typical Applications

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

RF Microwave & VSAT
Fiber Optics

Parameters	Min.	Typ.	Max.	Units
Frequency Range	2 – 18			GHz
Insertion Loss		6.8	7.5	dB
Insertion Loss Temperature Coefficient		0.003		dB/ ° C
Isolation	60	68		dB
Input VSWR		1.6	2.0	: 1
Output VSWR		1.6	2.0	: 1
RF Input power			30	dBm
DC Power Dissipation		5		W
0.1dB Compression Point (P0.1dB)		30		dBm
IIP3		55		dBm
Switching Speed		120	200	ns
Weight	11.29			Ounces
Impedance	50			Ω
Bias Current (+5V / -5V)	800 / 100			mA
Input / Output Connectors	SMA-Female			
Finish	Nickel Plated			
Material	Aluminum			
Sealing	Hermetically Sealed (optional)			



Absolute Maximum Ratings

Biassing	+5V ± 10%/-5V ± 10%
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Ordering Information

Part No.	Description
DBSA2402001800A	SP24T 2-18GHz PIN Diode Switch

Environmental Specifications

Operational Temperature	-40°C~+85°C(Case Temperature)
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:

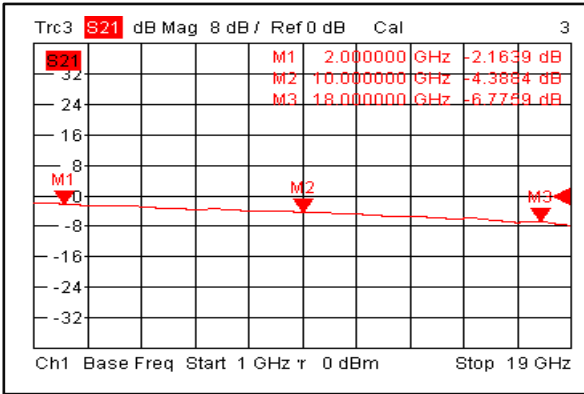
All Dimensions in mm (inches)

TTL Control Voltage THRESHOLD					Low(0)=0~0.8V	High(1)=2.8~5V
Control Input TTL					Signal Path State	
C5	C4	C3	C2	C1		
0	0	0	0	0	J0-J1	
0	0	0	0	1	J0-J2	
0	0	0	1	0	J0-J3	
0	0	0	1	1	J0-J4	
0	0	1	0	0	J0-J5	
0	0	1	0	1	J0-J6	
0	0	1	1	0	J0-J7	
0	0	1	1	1	J0-J8	
0	1	0	0	0	J0-J9	
0	1	0	0	1	J0-J10	
0	1	0	1	0	J0-J11	
0	1	0	1	1	J0-J12	
0	1	1	0	0	J0-J13	
0	1	1	0	1	J0-J14	
0	1	1	1	0	J0-J15	
0	1	1	1	1	J0-J16	
1	0	0	0	0	J0-J17	
1	0	0	0	1	J0-J18	
1	0	0	1	0	J0-J19	
1	0	0	1	1	J0-J20	
1	0	1	0	0	J0-J21	
1	0	1	0	1	J0-J22	
1	0	1	1	0	J0-J23	
1	0	1	1	1	J0-J24	

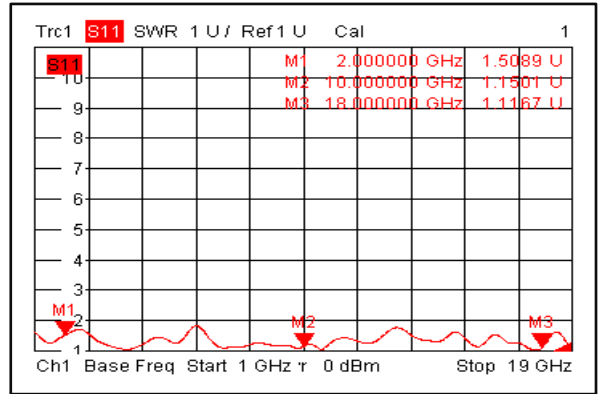
Control Pin Customization available upon request



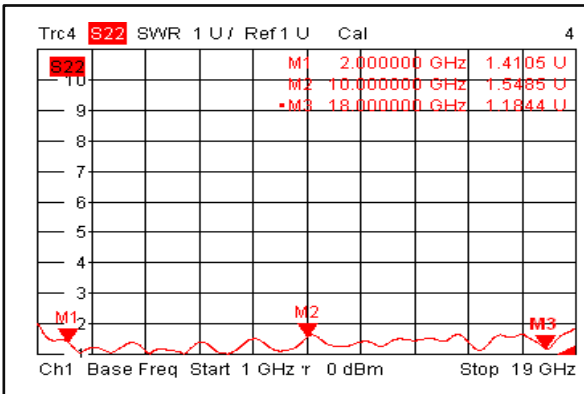
Insertion Loss



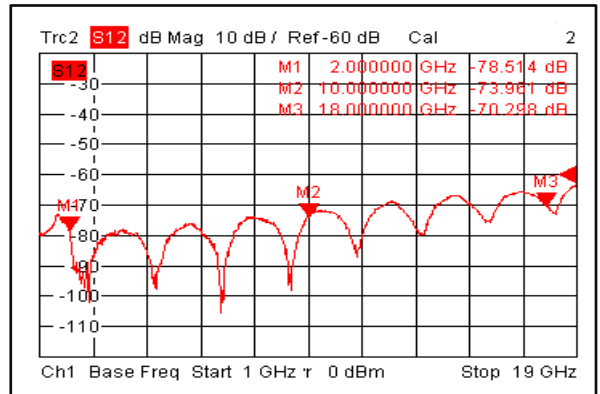
Input VSWR



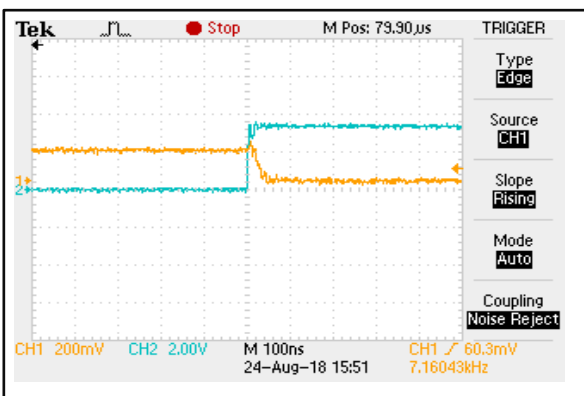
Output VSWR



Isolation



Switching Speed



Switching Speed

