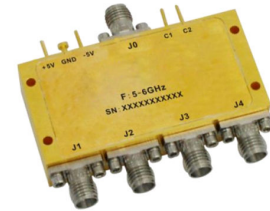


Absorptive 5-6GHz Coaxial SP4T Switch

Features

- Wide Band Operation 5-6GHz
- 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	5-6			GHz
Insertion Loss			3.2	dB
Insertion Loss Temperature Coefficient		0.003		dB/ °C
Isolation	70			dB
Input VSWR			1.5	: 1
Output VSWR			1.5	: 1
RF Input power			30	dBm
DC Power Dissipation (CW)		1		W
0.1dB Compression P0.1dB		27		dBm
IIP3		45		dBm
Switching Speed	100			ns
Weight	/			Ounces
Impedance	50			Ω
Bias Current(+5V/-5V)	140/50			mA
Input /Output Connectors	SMA-Female			
Finish	Gold Platec			
Material	Aluminum			
Sealing	Hermetically Sealed (optional)			



Absolute Maximum Ratings

Biasing	+5V ± 10%/-5V ± 10%
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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 Uncontrolled 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

Ordering Information

Part No.	Description
DBSA0405000600A	SP4T 5-6GHz PIN Diode Switch

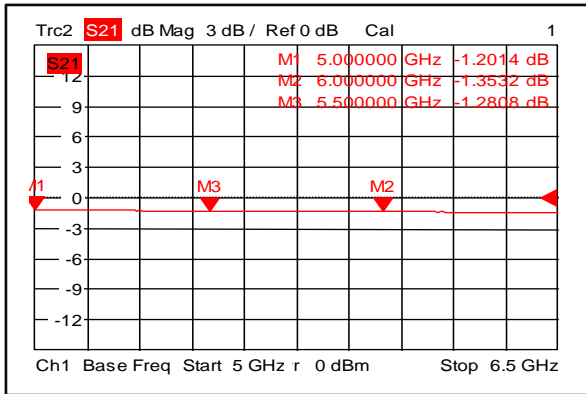
Outline Drawing:

All Dimensions in mm (inches)

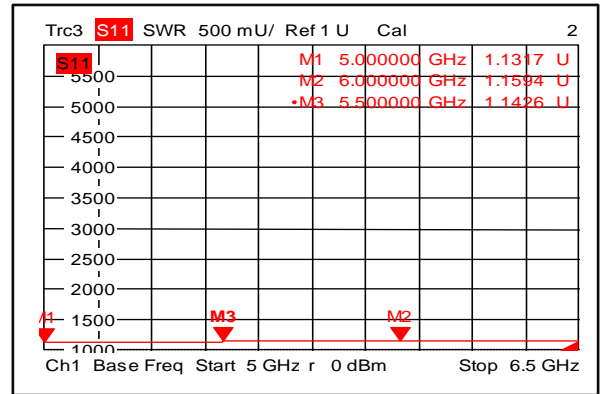
TTL Control Voltage THRESHOLD		Low(0)=0~0.8V	High(1)=2.8~5V
Control	Input TTL	Signal Path State	
C1	C2		
0	0	J0-J1	
0	1	J0-J2	
1	0	J0-J3	
1	1	J0-J4	
Control Pin Customization available upon request			



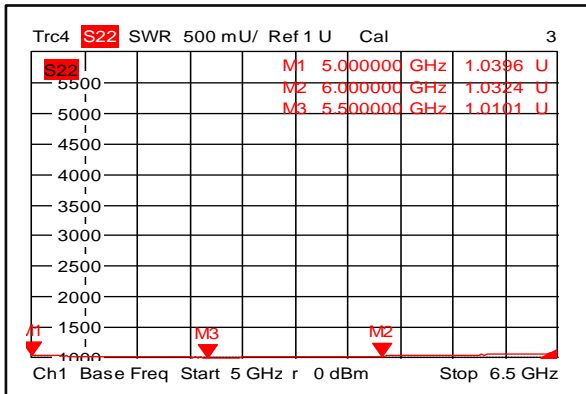
Insertion Loss



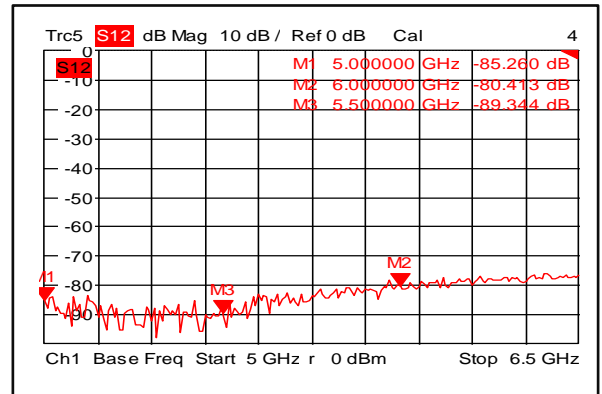
Input VSWR



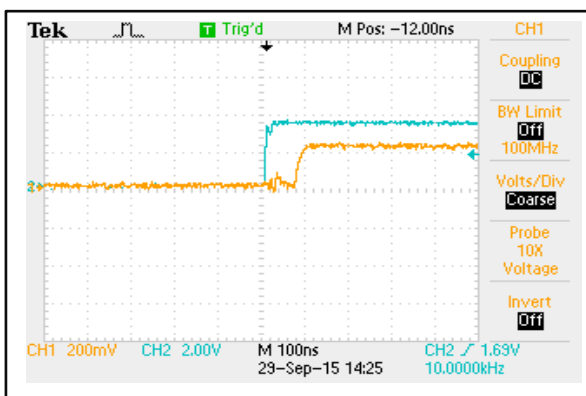
Output VSWR



Isolation



Switching Speed



Switching Speed

