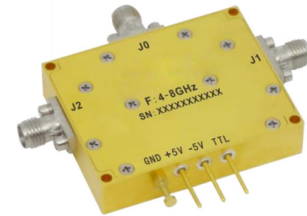




Absorptive 4-8GHz Coaxial SP2T Switch

Features

- Wide Band Operation 4-8GHz
- 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

Parameters	Min.	Typ.	Max.	Units
Frequency Range		4-8		GHz
Insertion Loss		1.9	2.0	dB
Insertion Loss Temperature Coefficient		0.003		dB/ ° C
Isolation	80	85		dB
Input VSWR		1.4	1.5	: 1
Output VSWR		1.4	1.5	: 1
RF Input Power			37	dBm
Power Dissipation (CW)		1.5		W
0.1dB Compression Point(P0.1dB)		37		dBm
IIP3		55		dBm
Switching Speed		100Max.		ns
Weight		1.41		ounces
Impedance		50		Ω
Bias Current (+5V / -5V)		80/50		mA
Input / Output Connectors		SMA - Female		
Finish		Gold Plated		
Material		Aluminum		
Sealing		Hermetically Sealed (optional)		



Absolute Maximum Ratings

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

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

Ordering Information

Part No.	Description
DBSA0204000800A	SP2T 4-8GHz PIN Diode Switch

Outline Drawing:

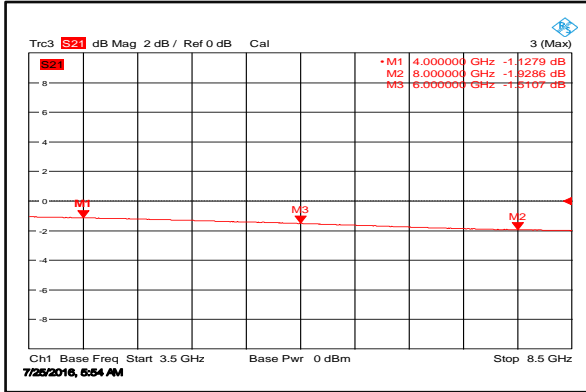
All Dimensions in mm (inches)
Tolerances ± 0.1 [0.004] (Excl heatsink)

Truth Table

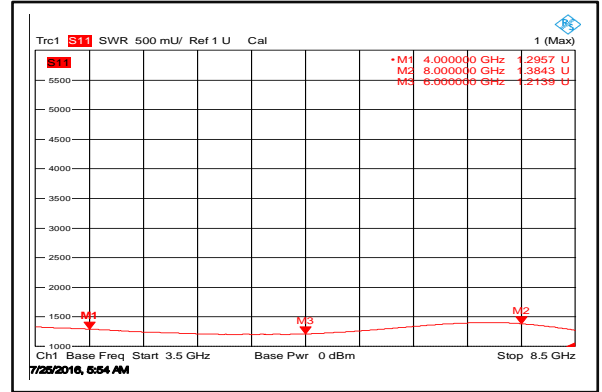
TTL Control Voltage THRESHOLD	Low(0)=0~0.8V
	High(1)=2.8~5V
Control Input TTL	Signal Path State
0	J0-J1
1	J0-J2
Control Pin Customization available upon request	



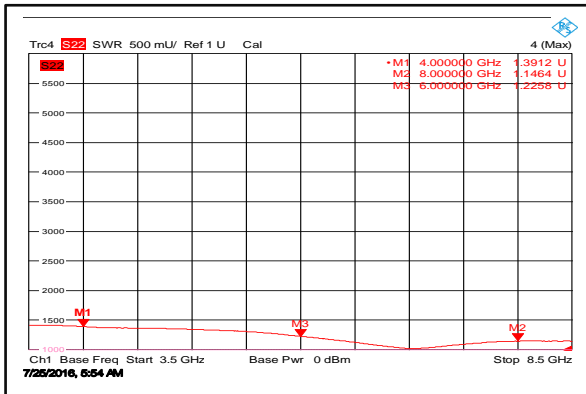
Insertion Loss



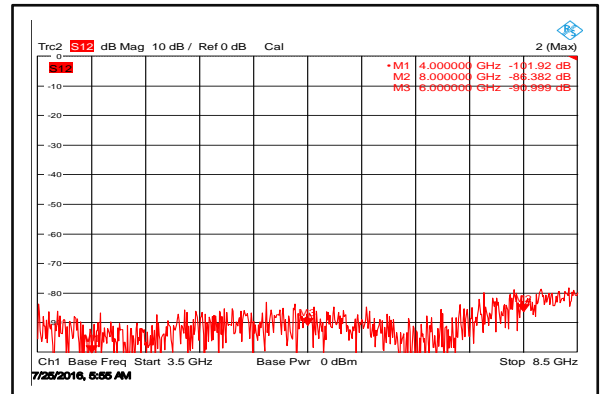
Input VSWR



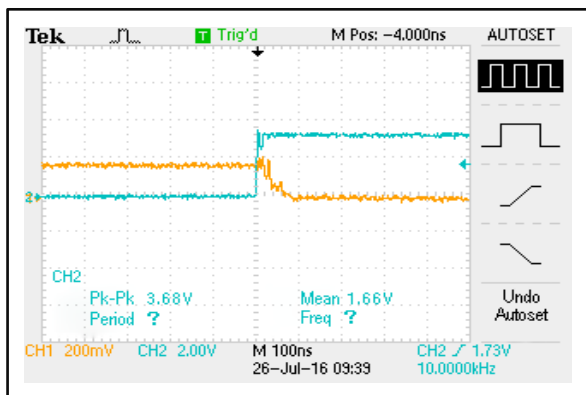
Output VSWR



Isolation



Turn on Switching Speed



Turn off Switching Speed

