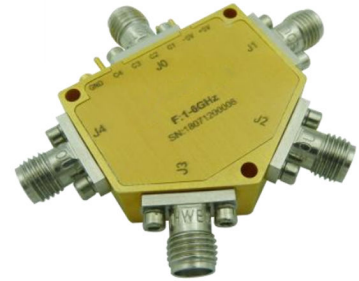




Absorptive 1-6GHz Coaxial SP2T Switch

Features

- Ultra Wide Band Operation 1-6GHz
- TTL compatible driver included
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Customization available upon request



Typical Applications

- Wireless Infrastructure
 - Military & Aerospace
 - Fiber Optics
- RF Microwave & VSAT
Test Instrument

Parameters	Min	Typ.	Max	Units
Frequency Range	1-6			GHz
Insertion Loss			2.0	dB
Insertion Loss Temperature Coefficient		0.003		dB/ °C
Isolation	50			dB
Input VSWR			2.0	: 1
Output VSWR			2.0	: 1
DC Power Dissipation		0.5		W
0.1dB Compression Point (P0.1dB)		30		dBm
IIP3		55		dBm
Switching Speed	200			ns
Weight	0.71			ounces
Impedance	50			Ω
Bias Current (+5V / -5V)	80/50			mA
Input / Output Connectors	SMA-Female			
Finishing	Gold Plating			
Material	Aluminum			
Sealing	Hermetically Sealed (Optional)			



Absolute Maximum Ratings

Biasing	+5V ± 10%/-5V ± 10%
TTL Control Voltage	0~0.8V/2.8~5V

Ordering Information

Part No.	ECCN	Description
DBSA0201000600A	EAR99	SP2T 1- 6GHz PIN Diode Switch

Environmental Specifications

Operational Temperature	-45°C~+85°C
Storage Temperature	-55°C~+125°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 35c, 95%RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions

Outline Drawing:

All Dimensions in mm (inches)

The drawing shows a top view of the component with the following dimensions and features:

- Top edge dimensions: 3 [0.12], 4 [0.16], 4 [0.16], 2 [0.08], 9 [0.35], 12 [0.47]
- Left edge dimensions: 17 [0.67], 14 [0.55], 2.8 [0.11]
- Bottom edge dimensions: 6.5 [0.26], 8.5 [0.33]
- Internal dimensions: 24 [0.94], 21 [0.83]
- Pin configuration: 4-Ø 2.2 [0.09] THRU
- Component markings: J0, RFECHO, J2, J1, F:1-6GHz, SN:XXXXXXXXXX, +5V, -5V, C1 GND C2

Control	Input TTL	Signal Path State
C1	C2	
0	0	NC
0	1	J0-J1
1	0	J0-J2
1	1	OFF

Control Pin Customization available upon request