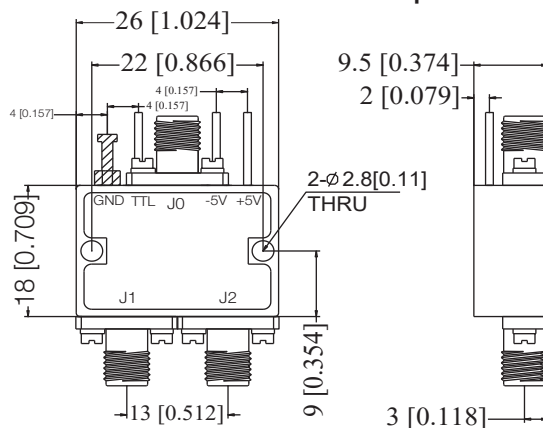


## Absorptive 0.8 - 20GHz Coaxial SP2T Switch



### Outline Drawing:

All Dimensions in mm (inches)

Parameters	Min	Typ.	Max	Min	Typ.	Max	Min	Typ.	Max	Units
Frequency Range	0.8-8			8-12			12-20			GHz
Insertion Loss		1.5	1.7		1.8	2.2		2.8	3.2	dB
Insertion Loss Temperature Coefficient		0.003			0.003			0.003		dB/° C
Isolation	70	85		70	75		60	65		dB
Input VSWR		1.8	2.0		1.6	2.0		1.6	2.0	: 1
Output VSWR		1.8	2.0		1.6	2.0		1.6	2.0	: 1
RF Input power			30			30			30	dBm
DC Power Dissipation (CW)		0.5			0.5			0.5		W
0.1dB Compression Point (P0.1dB)		30			30			30		dBm
IIP3		55			55			55		dBm
Switching Speed	100									ns
Weight	0.35									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%
TTL Control Voltage	0~0.8V/2.8~5V

Note: TTL pins cannot be connected to the negative voltage otherwise the internal driver will be damaged.

### Ordering Information

Part No.	ECCN	Description
DBSA0200802000A	EAR99	SP2T 0.8-20GHz 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