

# KSW177815

Switch, SP2T, Absorptive, 2-8 Ghz, SMA Female

Parameters	Min	Typ.	Max	Min	Typ.	Max	Units
Frequency Range	2		4	4		8	GHz
Insertion Loss		1.0	1.2		1.3	1.5	dB
Insertion Loss Temperature Coefficient		0.003			0.003		dB/ °C
Isolation	80	90		80	90		dB
Input VSWR		1.3	1.5		1.3	1.5	: 1
Output VSWR		1.3	1.5		1.3	1.5	: 1
Input Power			30			30	dBm
DC Power Dissipation		0.5			0.5		W
0.1dB Compression Point ( P0.1dB )		30			30		dBm
IIP3		55			55		dBm
Switching Speed			100			100	ns
Weight	1.1						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

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

### Ordering Information

Part No.	ECCN	Description
DBSA0202000800A	EAR99	SP2T 2-8GHz 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)

