

# SPST RF Switch

## 10 - 1000 MHz

**SW-121**

V2.00

### Features

- Low Loss - 0.5 dB Typical
- High Isolation - 60 dB Typical
- Integral TTL Driver
- Hermetic Package

### Guaranteed Specifications\* (-55°C to +85°C)

<b>Frequency Range</b>	10-1000 MHz	
<b>Insertion Loss</b>	10-1000 MHz	1.0 dB Max
	10-500 MHz	0.8 dB Max
<b>VSWR</b>	10-1000 MHz	1.25:1 Max
	10-500 MHz	1.2:1 Max
<b>Isolation</b>	10-1000 MHz	40 dB Min
	10-500 MHz	50 dB Min
	10-100 MHz	60 dB Min

### Operating Characteristics

<b>Impedance</b>	50 Ohms Nominal
<b>Switching Characteristics</b>	
t <sub>ON</sub>	2.0 μS Typ
t <sub>OFF</sub>	1.0 μS Typ
Transients (In-Band)	40 mV Typ
<b>Input Power for 1 dB Compression</b>	
+13 dBm Typ	
<b>Intermodulation Intercept Point (for two-tone input power up to +5 dBm)</b>	
Second Order	+60 dBm Typ
Third Order	+30 dBm Typ
<b>Bias Power</b>	
+9 to +15 VDC @ 35 mA Max	
-5 VDC ± 5% @ 35 mA Max	
(450 mW Typical)	

### Environmental

MIL-STD-883 screening available.

\* All specifications apply when operated with bias voltages of +12 VDC and -5 VDC (± 5%) and 50 ohm impedance at all RF ports.

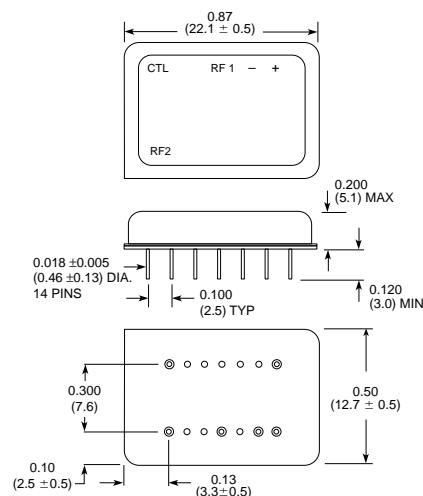
### Ordering Information

<b>Model No.</b>	<b>Package</b>
SW-121 PIN	Dual Inline

### Truth Table

TTL CONTROL INPUT "1" = TTL LOGIC HIGH	CONDITION OF SWITCH RF1 TO RF2
0	OFF
1	ON

### DI-1



(Positive Voltage Only)

Dimensions in ( ) are in mm.

Unless Otherwise Noted: .xxx = ± 0.010 (.xx = ± 0.25)

.xx = ± 0.02 (.x = ± 0.5)

WEIGHT (APPROX): 0.14 OUNCES 4 GRAMS

### Typical Performance

