

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)

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

Operating Characteristics

Impedance	50 Ohms Nominal
Switching Characteristics	
t _{ON}	2.0 μS Typ
t _{OFF}	1.0 μS Typ
Transients (In-Band)	40 mV Typ
Input Power for 1 dB Compression	+13 dBm Typ
Intermodulation Intercept Point (for two-tone input power up to +5 dBm)	
Second Order	+60 dBm Typ
Third Order	+30 dBm Typ
Bias Power	+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.

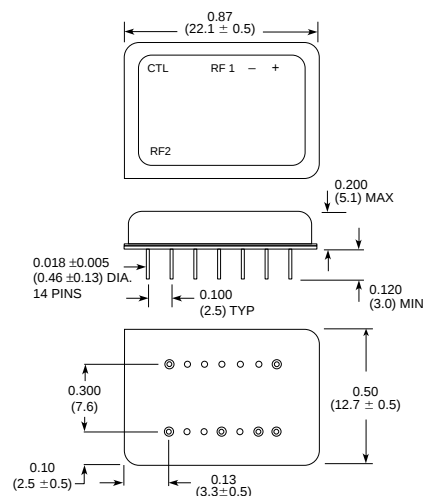
Ordering Information

Model No.	Package
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

