

# SPDT RF Switch

## 20 - 2000 MHz

**SW-112**

V2.00

### Features

- Ultra Broadband
- High Isolation – 70 dB Typical
- Integral TTL Driver
- Hermetic Package

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

Frequency Range	10-2000 MHz	
Insertion Loss	20-2000 MHz	2.2 dB Max
	20-1000 MHz	2.0 dB Max
	20-500 MHz	1.8 dB Max
VSWR	20-2000 MHz	1.5:1 Max
	20-1000 MHz	1.2:1 Max
Isolation	20-2000 MHz	50 dB Min
	20-1000 MHz	60 dB Min
	20-500 MHz	70 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 (500 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.

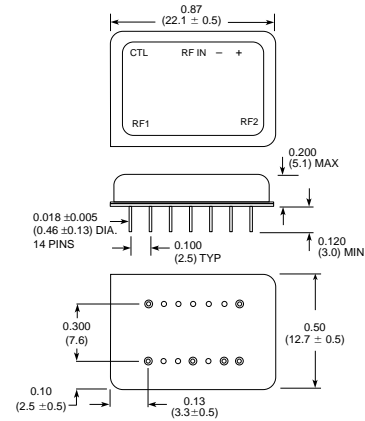
### Ordering Information

<b>Model No.</b>	<b>Package</b>
SW-112 PIN	Dual Inline

### Truth Table

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

### DI-1



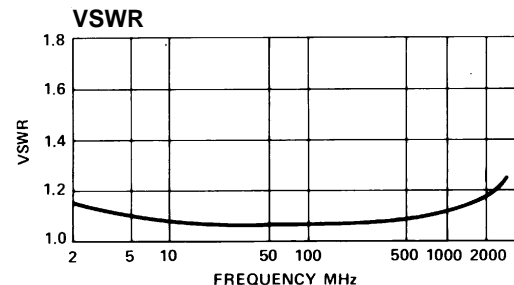
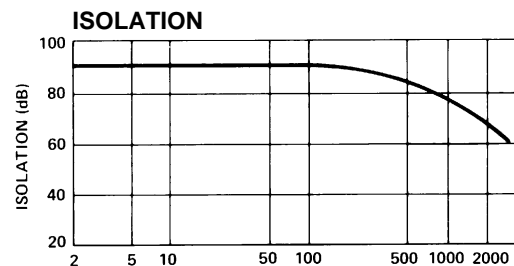
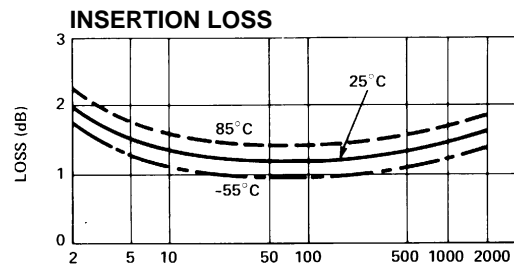
Dimensions in ( ) are in mm.

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

.xx = ±0.02 (.x = ±0.5)

WEIGHT (APPROX.) 0.14 OUNCES 4 GRAMS

### Typical Performance



Specifications Subject to Change Without Notice.

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