

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

Impedance 50 Ohms Nominal

Switching Characteristics

t_{ON} 2.0 μ S Typ
t_{OFF} 1.0 μ S 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 $\pm$ 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 ($\pm$ 5%) and 50 ohm impedance at all RF ports.

Ordering Information

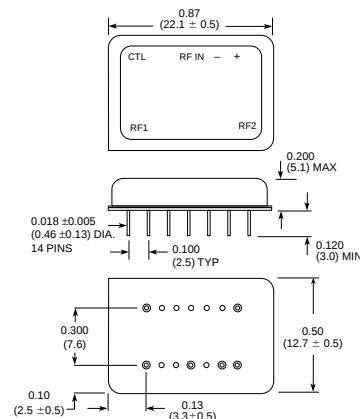
Model No.
SW-112 PIN

Package
Dual Inline

Truth Table

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

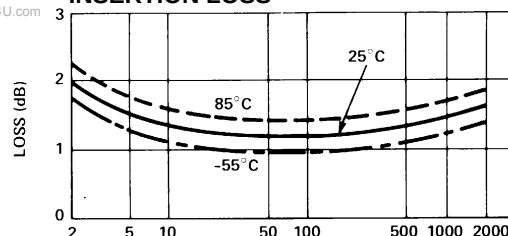
DI-1



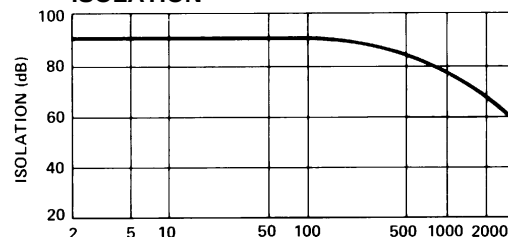
Dimensions in () are in mm.
Unless Otherwise Noted: .xxx = $\pm$ 0.010 (.xx = $\pm$ 0.25)
.xx = $\pm$ 0.02 (.x = $\pm$ 0.5)
WEIGHT (APPROX.) 0.14 OUNCES 4 GRAMS

Typical Performance

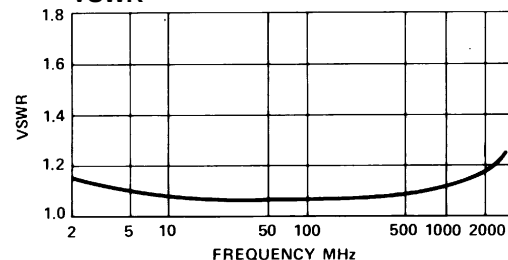
INSERTION LOSS



ISOLATION



VSWR



Specifications Subject to Change Without Notice.

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