

SPDT RF Switch

5 - 1000 MHz

SW-122

V2.00

Features

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

Guaranteed Specifications*

(From – 55°C to + 85°C)

Frequency Range	5-1000 MHz	
Insertion Loss	5-1000 MHz	1.0 dB Max
	5-500 MHz	0.8 dB Max
VSWR	5-1000 MHz	1.25:1 Max
	5-500 MHz	1.2:1 Max
Isolation	5-1000 MHz	40 dB Min
	5-500 MHz	50 dB Min
	5-100 MHz	60 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)
Package Type	Dual Inline (DI-1)

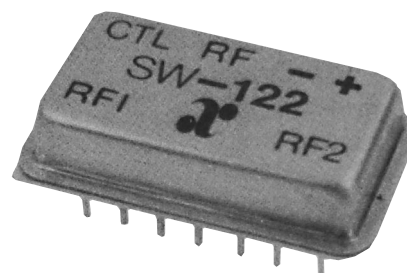
Environmental

MIL-STD-883 screening available.

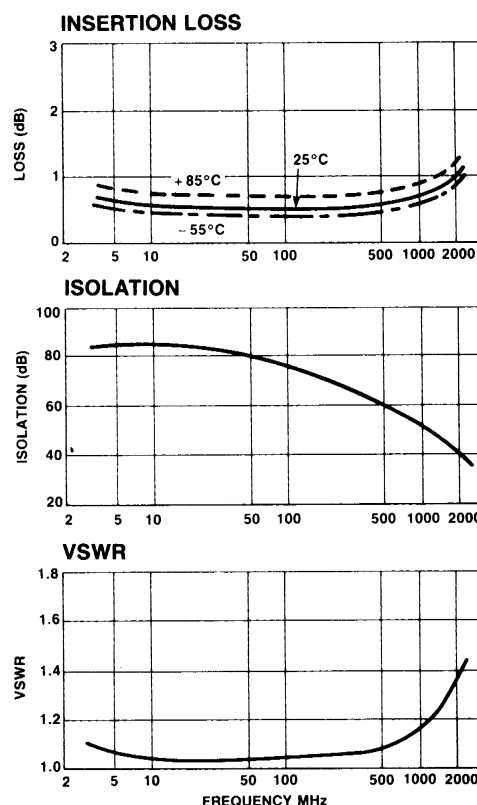
* All specifications apply when operated with bias voltages of +12 VDC and -5 VDC (\pm 5%) and 50 ohm impedance at all RF ports.

Ordering Information

Model No.	Connectors
SW-122	Pin



Typical Performance



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

Specifications Subject to Change Without Notice.

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