

Matched SPDT RF Switch 20 - 1500 MHz

SW-162

V2.00

Features

- Internally Terminated
- Integral TTL Driver
- Low Loss - 0.8 dB Typical

Guaranteed Specifications*

(From -55°C to +85°C)

Frequency Range	20-1500 MHz	
Insertion Loss	20-1500 MHz	1.5 dB Max
	20-1000 MHz	1.2 dB Max
	30-500 MHz	1.0 dB Max
VSWR (All States)	20-1500 MHz	1.50:1 Max
	30-1000 MHz	1.25:1 Max
Isolation	20-1500 MHz	40 dB Min
	20-1000 MHz	50 dB Min
	20-500 MHz	60 dB Min

Operating Characteristics

Impedance 50 Ohms Nominal

Switching Characteristics

t _{ON}	3.0 μS Typ
t _{OFF}	1.5 μS Typ
Transients (In-Band)	40 mV Typ

Input Power for 1 dB Compression	20-1500 MHz	+5 dBm Typ
	50-1500 MHz	+15 dBm Typ

Intermodulation Intercept Point (for two-tone input power up to +5 dBm)

Second Order	(20-1500 MHz)	+55 dBm Typ
	(50-1500 MHz)	+70 dBm Typ
Third Order	(20-1500 MHz)	+25 dBm Typ
	(50-1500 MHz)	+40 dBm Typ

Bias Power +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.

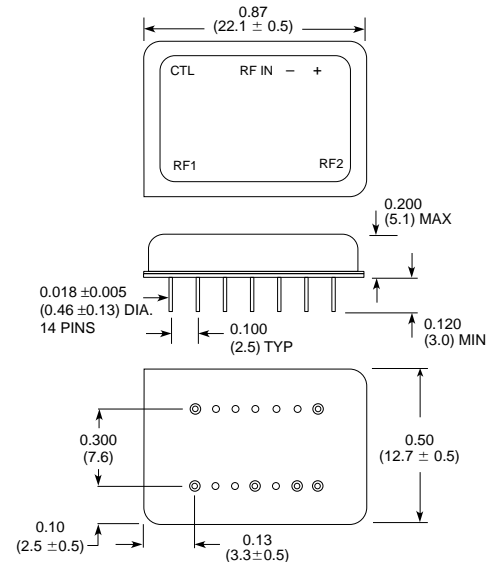
Ordering Information

Model No.	Package
SW-162 PIN	Dual Inline

Truth Table

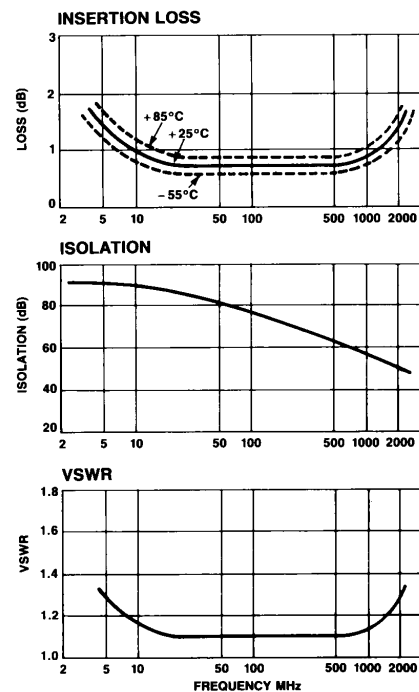
TTL CONTROL INPUT	CONDITION OF SWITCH	
"1" = TTL LOGIC HIGH	RF COMMON TO EACH RF PORT	
	RF1	RF2
0	ON	OFF
1	OFF	ON

DI-1



Dimensions in () are in mm.
Unless Otherwise Noted: .xxx = ±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.

M/A-COM, Inc.

North America: Tel. (800) 366-2266 ■ Asia/Pacific: Tel. +81 (03) 3226-1671 ■ Europe: Tel. +44 (1344) 869 595
Fax (800) 618-8883 Fax +81 (03) 3226-1451 Fax +44 (1344) 300 020