

SP4T RF Switch 10 - 1000 MHz

SW-124

V2.00

Features

- Low Loss 0.6 dB Typical
- High Isolation 60 dB Typical
- Integral TTL Driver
- Hermetic Package
- MIL-STD-883 Screening Available

Guaranteed Specifications* (From -55° C to $+85^{\circ}$ C)

Frequency Range		10-1000 MHz
Insertion Loss	10-1000 MHz 10-500 MHz	1.4 dB Max 1.0 dB Max
VSWR	10-1000 MHz 10-500 MHz	1.5:1 Max 1.2:1 Max
Isolation	10-1000 MHz 10-500 MHz 10-100 MHz	40 dB Min 50 dB Min 60 dB Min

Operating Characteristics

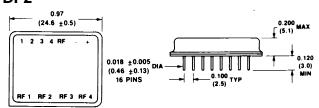
Impedance	50 Ohms Nominal
Switching Characteristics	
ton	2.0 μS Typ
toff	1.0 μS Typ
Transients (In-Band)	40 mV Typ
Input Power	+ 13 dBm Typ
for 1 dB Compression	•
Intermodulation Intercept Point (for two-tone input power up to +5 dBm)	
Second Order	+ 60 dBm Typ
Third Order	+ 30 dBm Typ
Bias Power	+ 9 to + 15 VDC @ 50 mA Max - 5 VDC ± 5% @ 25 mA Max (450 mW Typical)

^{*}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

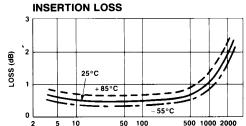
Part Number	Package		
SW-124 PIN	Dual Inline		

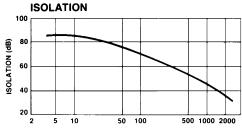
DI-2

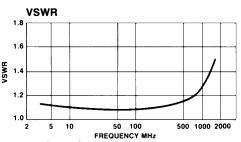


Dimensions in () are in mm. Unless otherwise noted: ..xxx = ± 0.010 (.xx = ± 0.25) $.xx = \pm 0.02 (.x = \pm 0.5)$ WEIGHT (APPROX.) 0.28 OUNCÈS 8 GRAMS

Typical Performance







Truth Table

TTL CONTROL INPUTS "1" = TTL LOGIC HIGH		CONDITION OF SWITCH RF COMMON TO EACH RF PORT					
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1	2	3	4	RF1	RF2	RF3	RF4
1	0	0	0	ON	OFF	OFF	OFF
0	1	0	0	OFF	ON	OFF	OFF
0	0	1	0	OFF	OFF	ON	OFF
0	0	0	1	OFF	OFF	OFF	ON

Specifications Subject to Change Without Notice.