

Matched SP3T RF Switch 20 - 1500 MHz

SW-163

V2.00

Features

- Internally Terminated
- Integral TTL Driver
- Low Loss 0.9 dB Typical
- MIL-STD-883 Screening Available

Guaranteed Specifications*

(From - 55°C to + 85°C)

Frequency Range		20-1500 MHz
Insertion Loss	20-1500 MHz	2.0 dB Max
	20-1000 MHz	1.5 dB Max
	30-500 MHz	1.2 dB Max
VSWR (All States)	20-1500 MHz	1.80:1 Max
	20-1000 MHz	1.50:1 Max
	30-500 MHz	1.25:1 Max
Isolation	20-1500 MHz	35 dB Min
	20-1000 MHz	40 dB Min
	20-500 MHz	50 dB Min

Operating Characteristics

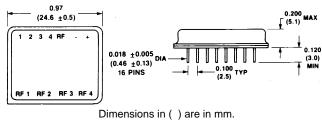
Impedance		50 Ohms Nominal
Switching Characterist	cs	
ton		3.0 µS Typ
toff		1.5 µS Typ
Transients (In-Band)		40 mV Typ
Input Power	20-1500 MHz	+ 5 dBm Typ
for 1 dB Compression	50-1500 MHz	+ 15 dBm Typ
Intermodulation Interce Point (for two-tone inpu power up to +5 dBm)		
Second Order	(20-1500 MHz) (50-1500 MHz)	+ 55 dBm Typ + 70 dBm Typ
Third Order	(20-1500 MHz) (50-1500 MHz)	+ 25 dBm Typ + 40 dBm Typ
Bias Power		5 VDC @ 45 mA Max ± 5% @ 25 mA Max (540 mW Typical)

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

Ordering Information

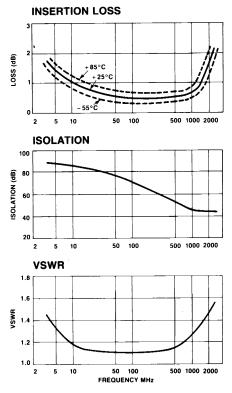
Part Number	Package
SW-163 PIN	Dual Inline

DI-2



Unless otherwise noted: ... $xx = \pm 0.010$ (. $xx = \pm 0.25$) . $xx = \pm 0.02$ (. $x = \pm 0.5$) WEIGHT (APPROX.) 0.28 OUNCES 8 GRAMS

Typical Performance



Truth Table

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

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Specifications Subject to Change Without Notice.

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