

# GaAs SP4T Switch 5-2000 MHz

SW-262

- Low Insertion Loss, 1.0 dB Typical
- Fast Switching Speed, 20 ns Typical
- Ultra Low DC Power Consumption, 0.3mA Typical
- Integral TTL (SW-262) or CMOS (SW-265) Driver

## **Guaranteed Specifications\***

(From - 55°C to +85°C)

Frequency Range		5-2000 MHz
Insertion Loss	5-2000 MHz 5-1000 MHz 5- 500 MHz	2.0 dB Max 1.4 dB Max 1.2 dB Max
VSWR	5-2000 MHz 5-1000 MHz 5- 500 MHz	2.5:1 Max 1.5:1 Max 1.3:1 Max
Isolation	5-2000 MHz 5-1000 MHz 5- 500 MHz	35 dB Min 37 dB Min 42 dB Min

## **Operating Characteristics**

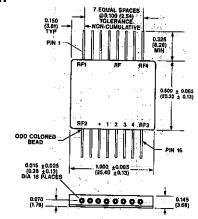
impedance		50	Ohms Nomina
Switching Characteri	stics		(TTL)
<sup>t</sup> RISE <sup>, t</sup> FALL			7 ns
ton, toff (50% CT	L to 90/10% RF)		20 ns
Transients (In-Band)			80 mV
Input Power for 1 dB C	ompression		
500-2000 MHz	•		+27 dBm Typ
50 MHz			+21 dBm Typ
Intermodulation Inter	cept Point (for		
two-tone input power	up to + 13 dBm	1)	
Intercept Points	IP <sub>2</sub>	P <sub>3</sub>	
500-2000 MHz	+68	+ 46	dBm Typ
50 MHz	+60	+40	dBm Typ
Bias Power			
SW-262	+5VDC@	2 0.30 mA	Typ, 1 mA Max
Environmental			
See Appendix for Mi	1 -STD-883 cor	eenina r	

## **Ordering Information**

Model No.	Package
SW-262 PIN	Flatpack

All specifications apply when operated with bias voltages of +5 VDC (SW-262) and 50 ohm impedance at all HF ports

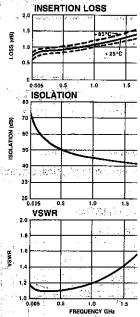
#### FP-17



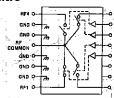
Dimensions in ( ) are in mm.

See Appendix for complete physical dimension

## Typical Performance



#### Schematic



### Truth Table

	Control Input		Co	ndition	
"1" = Logic High &UL (SW-262)/CMOS (SW-265)			RF Common To		
<b>©CT</b> L1	CTL2	CTL3	CTL4	RF1	RF2
d d	0	0	0	ON OFF OFF	OFF ON I
<b>6</b> 0	<u> </u>	0	1 .	OFF	OFF

Specifications Subject to Change Without Notice.

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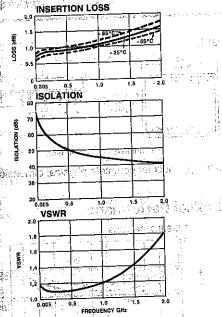
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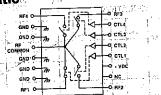
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## voical Performance



### Schematic



Truth Table

Control Input	Condition of Switch
"1" = Logic High "TTL (SW-262)/CMOS (SW-265)	RF Common To Each RF Port
CTL1 CTL2 CTL3 CTL4	RF1 RF2 RF3 RF4
1 0 0 0 0 1 0 0 0 0 1 0	ON OFF OFF OFF OFF OFF ON OFF OFF OFF OFF ON

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