

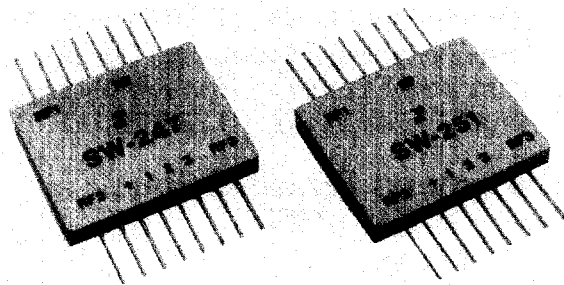
NEW



**MODELS
SW-247/251**

**MATCHED GaAs SP3T SWITCH
5-2000 MHz**

Low Insertion Loss, 1.0 dB Typical
Fast Switching Speed, 20 ns Typical
Ultra Low DC Power Consumption,
0.22mA Typical
Integral TTL (SW-247) or
CMOS (SW-251) Driver



Guaranteed Specifications*

(From -55°C to +85°C)

Frequency Range	5-2000 MHz	
Insertion Loss	5-2000 MHz	1.8 dB Max
	5-1000 MHz	1.4 dB Max
	5- 500 MHz	1.2 dB Max
VSWR	5-2000 MHz	2.0:1 Max
	5-1000 MHz	1.6:1 Max
	5- 500 MHz	1.4:1 Max
Isolation	5-2000 MHz	35 dB Min
	5-1000 MHz	42 dB Min
	5- 500 MHz	52 dB Min

Operating Characteristics

Impedance	50 Ohms Nominal	
Switching Characteristics	SW-247 (TTL)	SW-251 (CMOS)
	t _{RISE} , t _{FALL}	7 ns
t _{ON} , t _{OFF} (50% CTL to 90/10% RF)	20 ns	40 ns Typ
Transients (In-Band)	80 mV	40 mV Typ

Input Power for 1 dB Compression

Model #s	SW-247	SW-251	
500-2000 MHz	+27	+33	dBm Typ
50 MHz	+21	+26	dBm Typ

Intermodulation Intercept Point (for two-tone input power up to +13 dBm)

Intercept Points	IP ₂	IP ₃	
500-2000 MHz	+68	+46	dBm Typ
50 MHz	+60	+40	dBm Typ

Bias Power

SW-247 +5 VDC @ 0.22 mA Typ, 1 mA Max
SW-251 +5 to +8 VDC @ 0.22 to 0.40 mA Typ, 1 mA Max

Package Type

Flatpack (FP-17)
(See page 476 for physical dimensions.)

Environmental

These units are designed to meet the environmental and screening requirements of Table 1B, page 497 of the Adams-Russell catalog.

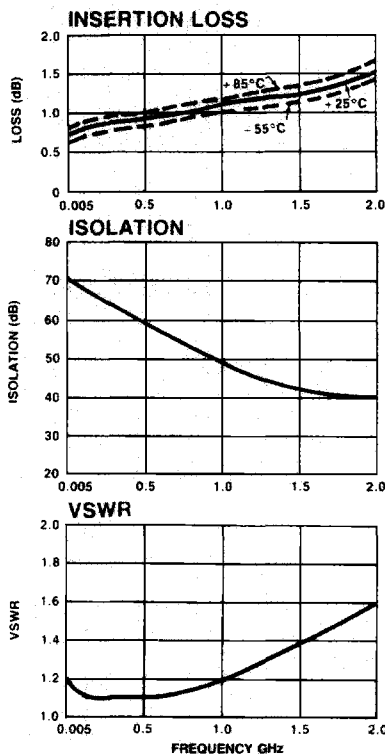
*All specifications apply when operated with bias voltages of +5 VDC (SW-247) or +8 VDC (SW-251) and 50 ohm impedance at all RF ports

Ordering Information

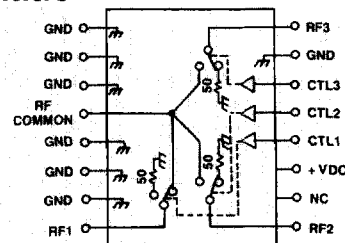
Model No.	Part No.	Connectors	Unit Price (5-9 Units)
SW-247	6804	Pin	\$418
SW-251	6806	Pin	418

Delivery is from stock.

Typical Performance



Schematic



Truth Table

Control Input			Condition of Switch		
*1 = Logic High TTL (SW-247)/CMOS (SW-251)			RF Common To Each RF Port		
CTL1	CTL2	CTL3	RF1	RF2	RF3
1	0	0	ON	OFF	OFF
0	1	0	OFF	ON	OFF
0	0	1	OFF	OFF	ON

ANZAC

Make the Connection . . .

Adams Russell

80 Cambridge Street, Burlington, MA 01803 Fax (617) 273-1921

COMPONENTS GROUP

For Technical Information, Call (617) 273-3333

For Ordering Information, Call (617) 273-3333