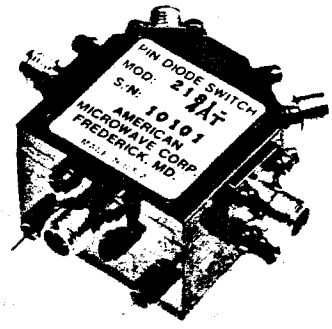
AMERICAN Microwave corporation

PIN DIODE SWITCH SP4T
MODEL SW-2181-4AT
NON-REFLECTIVE
2-18 GHz

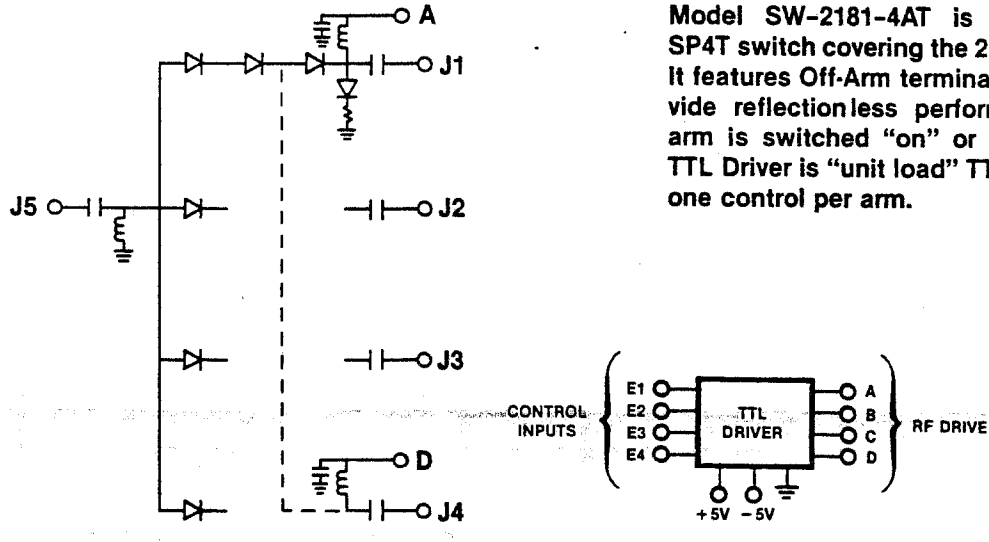


FEATURES

- Integral TTL Driver
- Rugged Microstrip Construction
- Reverse Polarity Protection on +5V and −5V Lines
- Off-Arm Terminations

FUNCTIONAL SCHEMATIC

(Typical Arm)



DESCRIPTION

Model SW-2181-4AT is a broadband SP4T switch covering the 2-18 GHz band. It features Off-Arm terminations that provide reflectionless performance when arm is switched "on" or "off". Integral TTL Driver is "unit load" TTL compatible, one control per arm.

10/89

7311G GROVE ROAD, FREDERICK, MARYLAND 21701 (301) 662-4700

SPECIFICATIONS

CHARACTERISTICS	FREQUENCY (GHz)			
	2-4	4-8	8-12.4	12.4-18
MAX. INS LOSS (dB)	2.0	2.2	2.7	3.5
MIN. ISOLATION (dB)	60	60	60	55
MAX. VSWR (on)	1.8	1.8	2.0	2.0
MAX. VSWR (off)	1.8	1.8	2.0	2.0

Switching Speed: (10% to 90% RF) 50 ns, Max.
(90% to 10% RF) 50 ns, Max.
RF Power: +20 dBm, Max.
Control: TTL compatible, one "unit load"
4 individual controls. Logic "1" - RF On;
Logic "0" - RF Off
Power Requirements: +5V @ 200 mA, Max.

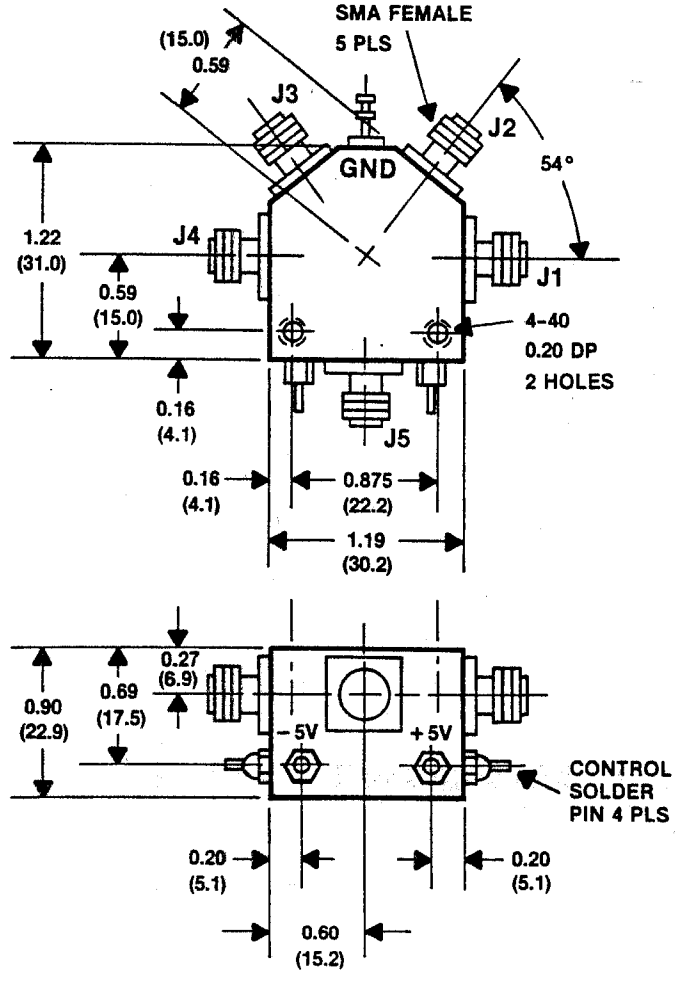
Connectors: RF: SMA Female
Power: RFI Solder Pin
Control: Solder Pin

Options: 001 RF Male SMA Connectors
002 35 dB, Min. Isolation
003 −12V Supply
004 +15 Volt Supply
005 Reverse Logic
006 −15 Volt Supply
007 Decoder
008 SMC Male CTL Connector
009 10 ns, Max Rise/Fall Time
010 Extend Frequency Range to 500 MHz

ENVIRONMENTAL RATINGS

Operating Temperature −65° C to 110° C
Non-Operating Temperature −65° C to 125° C
Humidity MIL-STD-202F, METHOD 103B
Shock MIL-STD-202F, METHOD 213B
Vibration MIL-STD-202F, METHOD 204D
Altitude MIL-STD-202F, METHOD 105C
Temp Cycling MIL-STD-202F, METHOD 107D

MECHANICAL DATA



DIMENSIONS: INCHES (MILLIMETERS)