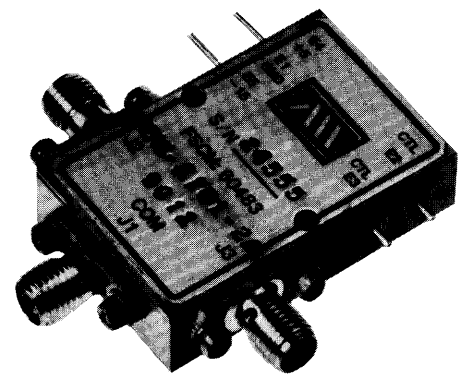




AMERICAN MICROWAVE CORPORATION

**PIN DIODE SWITCH SP2T
MODEL SW-2181-2AT
NON-REFLECTIVE
2-18 GHz**



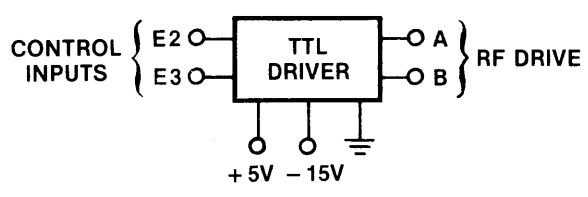
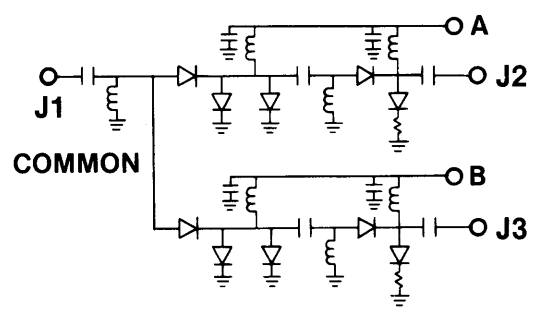
FEATURES

- Integral TTL Driver
- Rugged Microstrip Construction
- Off Arm Terminations
- Reverse Polarity Protection on + V and - V lines
- Solid State Reliability

DESCRIPTION

Model SW-2181-2AT is a broadband SP2T covering the 2-18 GHz frequency band. It features off-arm terminations that provide reflection-less performance when the arm is switched "ON" or "OFF". Integral TTL driver is unit load TTL compatible, with one control per arm.

FUNCTIONAL SCHEMATIC



SPECIFICATIONS

Characteristics	Frequency (GHz)			
	2-4	4-8	8-12.4	12.4-18
Parameters				
MAX INS Loss (dB)	2.0	2.2	2.7	3.3
MIN Isolation (dB)	60	60	60	55
MAX VSWR (on)	1.5	1.8	1.8	1.9
MAX VSWR (off)	1.5	1.8	1.8	1.9

RISE/FALL TIME: 50 ns, Max (10% to 90% RF)
50 ns, Max (90% to 10% RF)

RF POWER: + 20 dBm, Max

CONTROL: TTL Compatible, One "unit load"
2 individual controls.
Logic "1" RF - ON
Logic "0" RF - OFF

POWER REQUIREMENTS: + 5 Vdc @ 130 mA, Max
- 15 Vdc @ 60 mA, Max

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

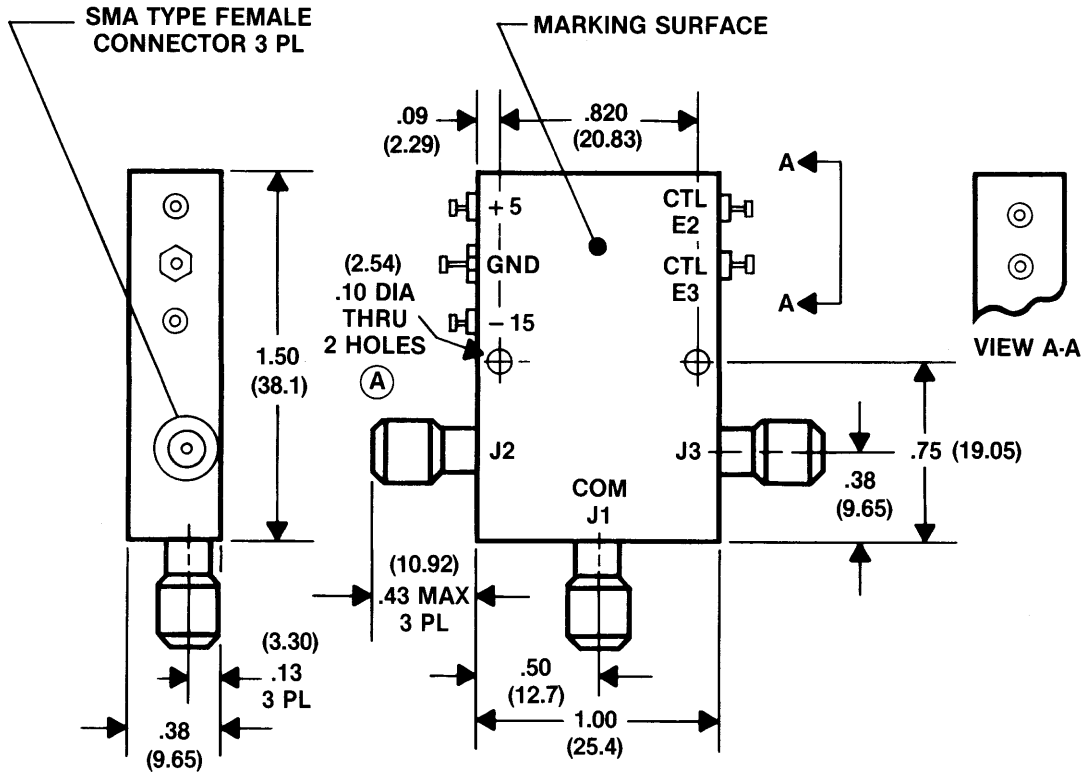
OPTIONS:

- 001 RF Male SMA Connectors
- 002 35 dB, Min Isolation
- 003 - 12 Vdc Supply
- 004 + 15 Vdc Supply
- 005 Reverse Logic
- 006 - 5 Vdc Supply
- 007
- 008
- 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
 Attitude MIL-STD-202F, METHOD 105C
 Temp Cycling MIL-STD-202F, METHOD 107D

MECHANICAL DATA



DIMENSIONS: INCHES (MM)

**PIN DIODE SWITCH SP2T
MODEL SW-2181-2AT
NON-REFLECTIVE
2-18 GHz**