

## DESCRIPTION

AMC MODEL SW-1170-5D IS A REFLECTIVE BROAD BAND SP5T SWITCH MODULE WITH INTEGRAL TTL DRIVER.

## SPECIFICATIONS

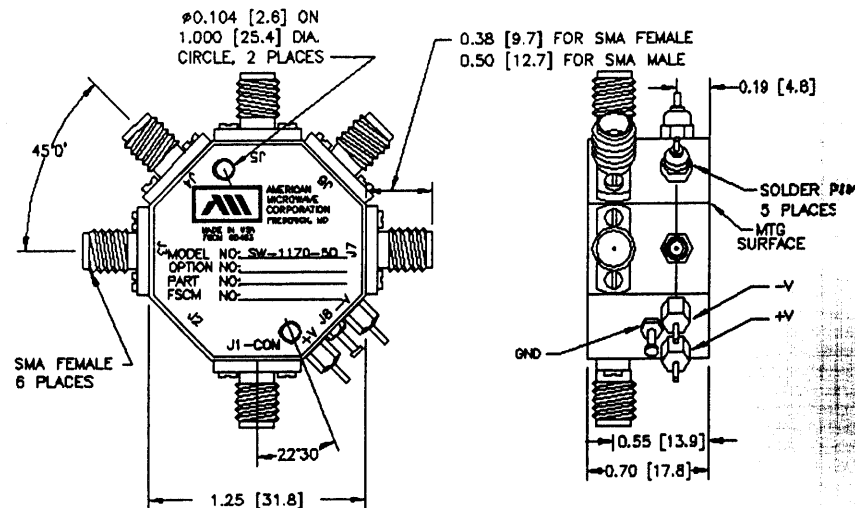
- FREQUENCY RANGE ..... 1-18 GHz MINIMUM
- INSERTION LOSS ..... 1-4 GHz, 1.4 dB MAXIMUM  
4-8 GHz, 1.5 dB MAXIMUM  
8-12.4 GHz, 2.0 dB MAXIMUM  
12.4-18 GHz, 2.8 dB MAXIMUM
- ISOLATION ..... 1-12.4 GHz, 65 dB MINIMUM  
12.4-18 GHz, 55 dB MINIMUM
- VSWR (ON) ..... 1.9:1 MAXIMUM
- RF POWER RATING ..... 1W CW, 75W PEAK (1 $\mu$ S, PW MAXIMUM)
- SWITCHING TIME  
RISE (10% RF TO 90% RF) ..... 20 ns MAXIMUM  
FALL (90% RF TO 10% RF) ..... 20 ns MAXIMUM  
ON (50% TTL TO 90% RF) ..... 50 ns MAXIMUM  
OFF (50% TTL TO 10% RF) ..... 50 ns MAXIMUM
- CONTROL ..... TTL, LOW POWER SCHOTTKY, (UNITY LOAD)  
(SEE TRUTH TABLE)  
LOGIC "0" = INSERTION LOSS  
LOGIC "1" = ISOLATION
- POWER SUPPLY ..... +5VDC  $\pm$ 5% @ 200 mA MAXIMUM  
-12 TO -15VDC @ 55 mA MAXIMUM
- CONNECTORS  
RF INPUT/OUTPUT ..... SMA (FEMALE)  
POWER ..... SOLDER PIN  
CONTROL ..... SOLDER PIN
- SIZE ..... 1.25" x 1.25" x 0.70"

## AVAILABLE OPTIONS

- A01 ..... 50 $\Omega$  CONTROL IMPEDANCE
- A02 ..... 100 $\Omega$  CONTROL IMPEDANCE
- A03 ..... INVERSE CONTROL LOGIC (LOGIC "0" ISOLATION)
- A04 ..... EXTENDED FREQUENCY RANGE TO 100 MHz
- A07 ..... VIDEO FILTER ON COMMON PORT ONLY (0.25 dB EXCESS LOSS)
- A08 ..... VIDEO FILTER ON OUTPUT PORTS ONLY (0.25 dB EXCESS LOSS)
- A09 ..... VIDEO FILTER ON ALL PORTS (0.5 dB EXCESS LOSS)
- A10 ..... SMA MALE RF CONNECTORS (0.4 dB EXCESS LOSS)
- A11 ..... SMC MALE CONTROL TERMINALS
- A13 ..... +12 TO +18 VDC POWER SUPPLY
- A14 ..... -5 VDC POWER SUPPLY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
A		ORIGINAL RELEASE, JOB #30110E	3/8/95	<i>[Signature]</i>

## MECHANICAL OUTLINE




TRUTH TABLE						
E7	E6	E5	E4	E3	RF PATH	ON
1	1	1	1	0	J1-J3	
1	1	1	0	1	J1-J4	
1	1	0	1	1	J1-J5	
1	0	1	1	1	J1-J6	
0	1	1	1	1	J1-J7	

- NOTES:
- 1) DIMENSIONS ARE IN INCHES [MILLIMETERS]
  - 2) TOLERANCES: X.XX  $\pm$ 0.020  
X.XXX  $\pm$ 0.010
  - 3) WEIGHT: APPROX. 2.0 OZ

## ENVIRONMENTAL RATINGS

- TEMPERATURE:  
OPERATING ..... -65°C TO +110°C  
NON-OPERATING ..... -65°C TO +125°C
- HUMIDITY ..... MIL-STD-202F, METHOD 103B COND. B
- SHOCK ..... MIL-STD-202F, METHOD 213B COND. B
- VIBRATION ..... MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE ..... MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE ..... MIL-STD-202F, METHOD 107D COND. A

		<b>AMERICAN MICROWAVE CORPORATION</b> 7311G GROVE RD., FREDERICK, MD. 21701 TEL: (301) 662-4700 FAX: (301) 662-4938		
		PRODUCT FEATURE <b>SW-1170-5D</b> 1.0-18 GHz, SP5T SWITCH MODULE		
APPROVALS DRAWN <i>WSP</i> CHECKED	DATE 3/8/95	SIZE A	SHEET 1 OF 2	DWG. # 100-3671