REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE, JOB #30110E	3/6/95	

DESCRIPTION

AMC MODEL SW-1170-6D IS A REFLECTIVE BROAD BAND SP6T SWITCH MODULE WITH INTEGRAL TTL DRIVER.

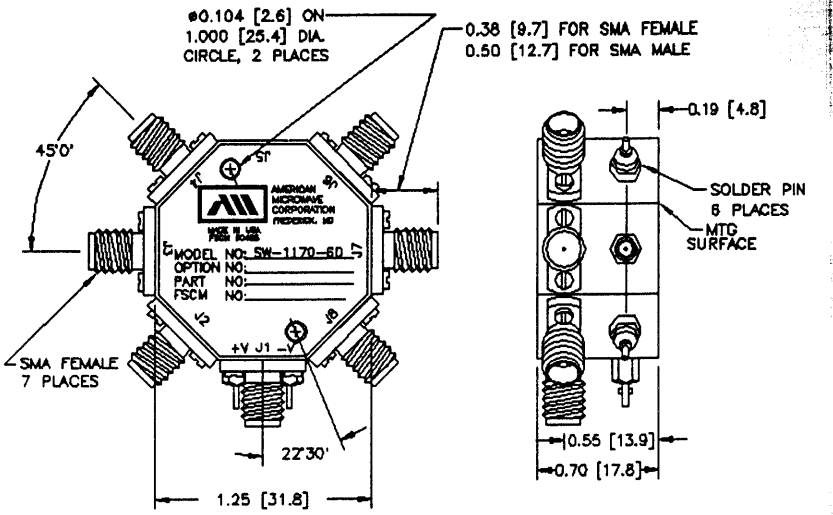
SPECIFICATIONS

- FREQUENCY RANGE ..... 1-18 GHz MINIMUM
- INSERTION LOSS ..... 1-4 GHz, 1.6 dB MAXIMUM
  4-8 GHz, 1.8 dB MAXIMUM
  8-12.4 GHz, 2.2 dB MAXIMUM
  12.4-18 GHz, 3.2 dB MAXIMUM
- ISOLATION ..... 1-12.4 GHz, 60 dB MINIMUM
  12.4-18 GHz, 50 dB MINIMUM
- VSWR (ON) ..... 2.0:1 MAXIMUM
- RF POWER RATING ..... 1W CW, 75W PEAK (1µS, 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 ±5% @ 250 mA MAXIMUM
  -12 TO -15VDC @ 60 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	50Ω CONTROL IMPEDANCE
A02	100Ω 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

MECHANICAL OUTLINE



TRUTH TABLE						
E8	E7	E6	E4	E3	E2	RF PATH ON
1	1	1	1	1	0	J1-J2
1	1	1	1	0	1	J1-J3
1	1	1	0	1	1	J1-J4
1	1	0	1	1	1	J1-J6
1	0	1	1	1	1	J1-J7
0	1	1	1	1	1	J1-J8

NOTES:
1) DIMENSIONS ARE IN INCHES [MILLIMETERS]
2) TOLERANCES: X.XX ±0.020
   X.XXX ±0.010
3) WEIGHT: APPROX. 2.5 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

APPROVALS	DATE
DRAWN WFP	3/6/95
CHECKED	

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PRODUCT FEATURE

SW-1170-6D

1.0-18 GHz, SP6T SWITCH MODULE

SIZE A	SHEET 1 OF 2	DWG. # 100-36729