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

DESCRIPTION

AMC MODEL SW-1170-7D IS A REFLECTIVE BROAD BAND SP7T SWITCH MODULE WITH INTEGRAL TTL DRIVER.

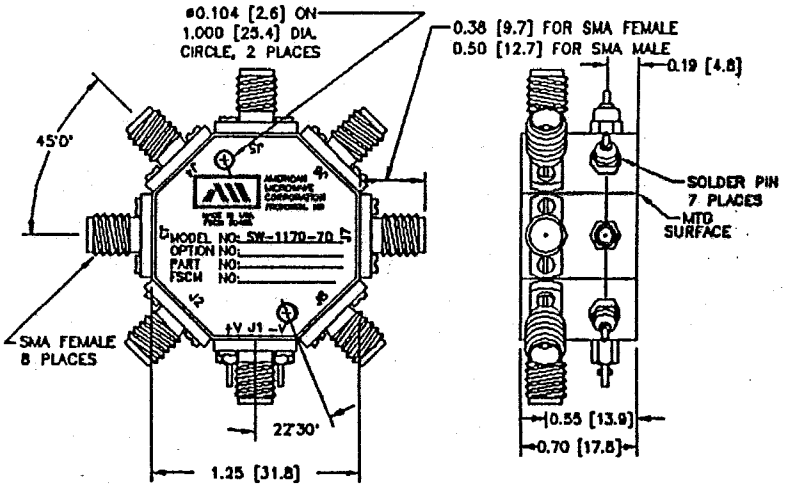
SPECIFICATIONS

- FREQUENCY RANGE ..... 1-18 GHz MINIMUM
- INSERTION LOSS ..... 1-4 GHz, 1.7 dB MAXIMUM
  4-8 GHz, 2.0 dB MAXIMUM
  8-12.4 GHz, 2.5 dB MAXIMUM
  12.4-18 GHz, 3.5 dB MAXIMUM
- ISOLATION ..... 1-12.4 GHz, 60 dB MINIMUM
  12.4-18 GHz, 50 dB MINIMUM
- VSWR (ON) ..... 2.2:1 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% @ 300 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	E5	E4	E3	E2	RF PATH ON
1	1	1	1	1	1	0	J1-J2
1	1	1	1	1	0	1	J1-J3
1	1	1	1	0	1	1	J1-J4
1	1	1	0	1	1	1	J1-J5
1	1	0	1	1	1	1	J1-J6
1	0	1	1	1	1	1	J1-J7
0	1	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. 2.7 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 WSP	3/6/95
CHECKED	

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PRODUCT FEATURE
SW-1170-7D
1.0-18 GHz, SP7T SWITCH MODULE

SIZE A | SHEET 1 OF 2 | # 100-3673