REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE, JOB #30110E	3/6/96	

DESCRIPTION

AMC MODEL SW-1182-7D IS A REFLECTIVE BROAD BAND SP7T SWITCH MODULE WITH INTEGRAL TTL DRIVER.

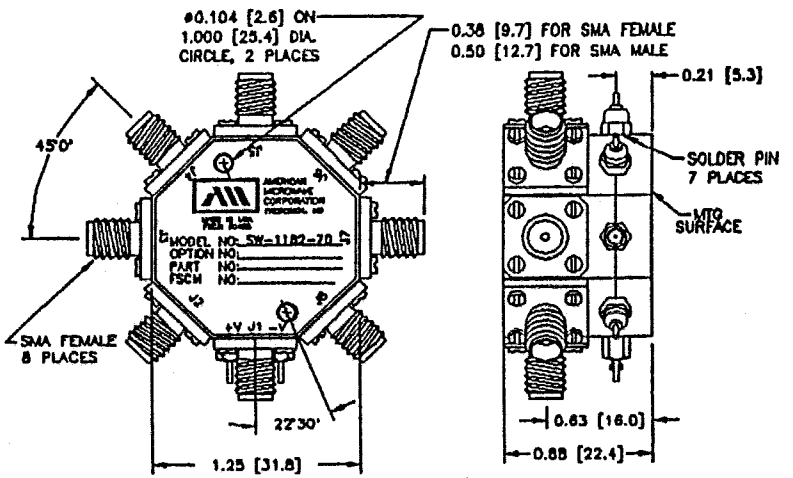
SPECIFICATIONS

- 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 0.88"

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	3/6/96
CHECKED	

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PRODUCT FEATURE
SW-1182-7D
1.0-18 GHz, SP7T SWITCH MODULE

SIZE A	SHEET 1 OF 2	DWG. # 100-3200