REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE, JOB # 10339	11/22/92	

DESCRIPTION

AMC MODEL SW-8018-4A IS A REFLECTIVE SP4T SWITCH MODULE WITH INTEGRAL TTL DRIVER.

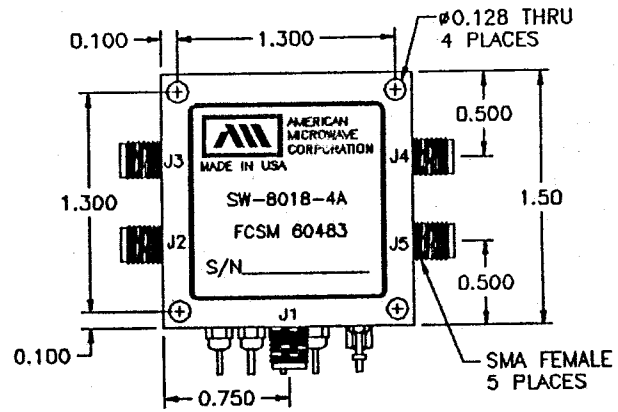
SPECIFICATIONS

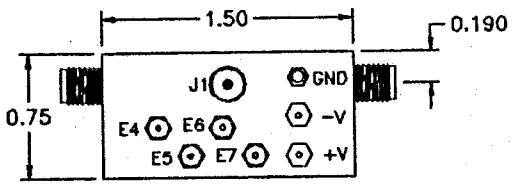
- FREQUENCY RANGE ..... 8-18 GHz MINIMUM
- INSERTION LOSS ..... 3.0 dB MAXIMUM
- ISOLATION ..... 50 dB MINIMUM
- VSWR (ON) ..... 2:1 MAXIMUM
- RF POWER RATINGS ..... 1 WATT CW MAXIMUM
- SWITCHING TIME
  - RISE (10% RF TO 90% RF) ..... 100 ns MAXIMUM
  - FALL (90% RF TO 10% RF) ..... 100 ns MAXIMUM
  - ON (50% TTL TO 90% RF) ..... 200 ns MAXIMUM
  - OFF (50% TTL TO 10% RF) ..... 200 ns MAXIMUM
- CONTROLS ..... TTL COMPATIBLE, UNITY LOAD
  4 INDIVIDUAL CONTROLS
  LOGIC "0" = INSERTION LOSS
  LOGIC "1" = ISOLATION
  (SEE TRUTH TABLE)
- POWER SUPPLY ..... +5VDC ±5% @175 mA MAXIMUM
  −15VDC ±5% @175 mA MAXIMUM
- CONNECTORS
  - RF INPUT/OUTPUT ..... SMA (FEMALE)
  - POWER ..... SOLDER PIN (EMI)
  - CONTROL ..... SOLDER PIN
- SIZE ..... 1.50" x 1.50" x 0.75"

AVAILABLE OPTIONS

- A01 ..... 50Ω CONTROL IMPEDANCE
- A02 ..... 100Ω CONTROL IMPEDANCE
- A03 ..... INVERSE CONTROL LOGIC (LOGIC "0" ISOLATION)
- A04 ..... VIDEO FILTER (0.5 dB EXCESS LOSS)
- A13 ..... +15 VDC SUPPLY

MECHANICAL OUTLINE





TRUTH TABLE				
E7	E6	E5	E4	RF PATH
1	1	1	0	J1-J2
1	1	0	1	J1-J3
1	0	1	1	J1-J4
0	1	1	1	J1-J5

NOTES:
1) DIMENSIONS ARE IN INCHES
2) TOLERANCES: X.XX ±0.020
   X.XXX ±0.010
3) WEIGHT: APPROX. 6 OZ

ENVIRONMENTAL RATINGS

- **TEMPERATURE** ..... −55°C TO +95°C (OPERATING)
  −65°C TO +125°C (STORAGE)
- **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	11/22/92
CHECKED	11/22/92

AMERICAN MICROWAVE CORPORATION
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PRODUCT FEATURE
SW-8018-4A
8-18 GHz, REFLECTIVE SP4T SWITCH MODULE

SIZE A	SHEET 1 OF 2	DWG. # 100-2887