

## DESCRIPTION

AMC MODEL SW-4080-2D IS A REFLECTIVE, OCTAVE BAND SPDT SWITCH MODULE WITH HIGH SPEED AND HIGH POWER CAPABILITIES.

## SPECIFICATIONS

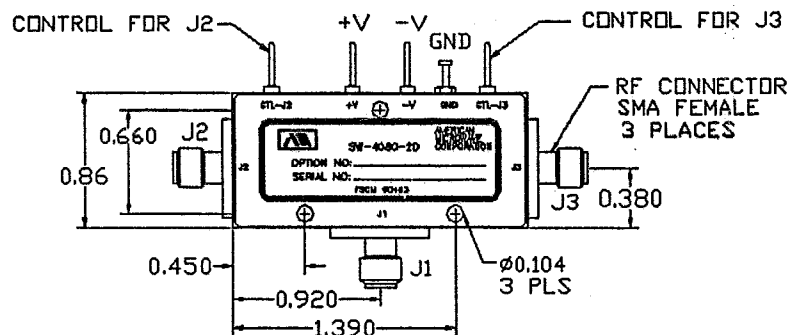
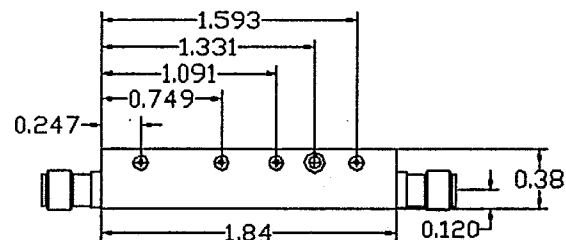
- FREQUENCY RANGE ..... 3-9 GHz
- INSERTION LOSS ..... 4-8 GHz 1.4 dB MAXIMUM  
3-9 GHz 2.3 dB MAXIMUM
- ISOLATION ..... 4-8 GHz 50 dB MAXIMUM  
3-9 GHz 45 dB MAXIMUM
- VSWR (ON) ..... 4-8 GHz 1.5:1 MAXIMUM  
3-9 GHz 2.2:1 MAXIMUM
- SWITCHING TIME  
RISE (10% RF TO 90% RF) ..... 10 nS MAXIMUM  
FALL (90% RF TO 10% RF) ..... 10 nS MAXIMUM  
ON (50% TTL TO 90% RF) ..... 25 nS MAXIMUM  
OFF (50% TTL TO 10% RF) ..... 20 nS MAXIMUM
- RF POWER RATINGS ..... 2W CW, 10W PEAK (1 $\mu$  S, PW)
- CONTROL ..... TTL COMPATIBLE, UNITY LOAD  
2 INDEPENDENT CONTROLS  
LOGIC "0" = INSERTION LOSS  
LOGIC "1" = ISOLATION
- POWER SUPPLY ..... +5VDC  $\pm$ 5% @ 65 mA  
-12 TO -15VDC  $\pm$ 5% @ 2 mA
- CONNECTORS  
RF INPUT/OUTPUT ..... SMA FEMALE  
POWER ..... SOLDER PIN  
CONTROL ..... SOLDER PIN
- SIZE ..... 1.84" x 0.86" x 0.38"

## AVAILABLE OPTIONS

- A01 ..... 50 CONTROL IMPEDANCE
- A02 ..... 100 CONTROL IMPEDANCE
- A03 ..... INVERSE LOGIC (LOGIC "0" ISOLATION)
- A05 ..... 5 WATTS CW MAXIMUM (100 nS RISE/FALL)
- A07 ..... INPUT/OUTPUT VIDEO FILTER (0.5 dB EXCESS LOSS)
- A13 ..... +12 TO +15 VOLTS SUPPLY
- A14 ..... J1 SMA MALE, J2 SMA FEMALE
- A15 ..... J1, J2 SMA MALE
- A16 ..... 70 dB ISOLATION (0.5 dB EXCESS LOSS)

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE, JOB # 204110	11/17/92	<i>Jay</i>

## MECHANICAL OUTLINE



### NOTES:

- 1) DIMENSIONS ARE IN INCHES
- 2) TOLERANCES: X.XX  $\pm$ 0.020  
X.XXX  $\pm$ 0.010
- 3) WEIGHT: APPROX. 1.2 OZ

## ENVIRONMENTAL RATINGS

- TEMPERATURE ..... -55°C TO +95°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- HUMIDITY ..... MIL-STD-202F, METHOD 103B COND.
- SHOCK ..... MIL-STD-202F, METHOD 213B COND.
- VIBRATION ..... MIL-STD-202F, METHOD 204D COND.
- ALTITUDE ..... MIL-STD-202F, METHOD 105C COND.
- TEMPERATURE CYCLE ..... MIL-STD-202F, METHOD 102D COND.



## AMERICAN MICROWAVE CORPORATION

7311G GROVE RD., FREDERICK, MD. 21701  
TEL: (301) 662-4700 FAX: (301) 662-4938

APPROVALS	DATE
DRAWN <i>Wayne Panchang</i>	11/17/92
CHECKED <i>[Signature]</i>	11/22/92

PRODUCT FEATURE		
SW-4080-2D		
HIGH SPEED, REFLECTIVE, HIGH POWER, 3-9 GHz SPDT SWITCH MODULE		
SIZE A	SHEET 1 OF 2	DWG. # 100-2520

3-15