

## DESCRIPTION

AMC MODEL SW-2181-6AT IS AN ABSORPTIVE BROAD BAND SP6T SWITCH MODULE WITH INTEGRAL TTL DRIVER, PACKAGED IN A RADIAL HOUSING.

## SPECIFICATIONS

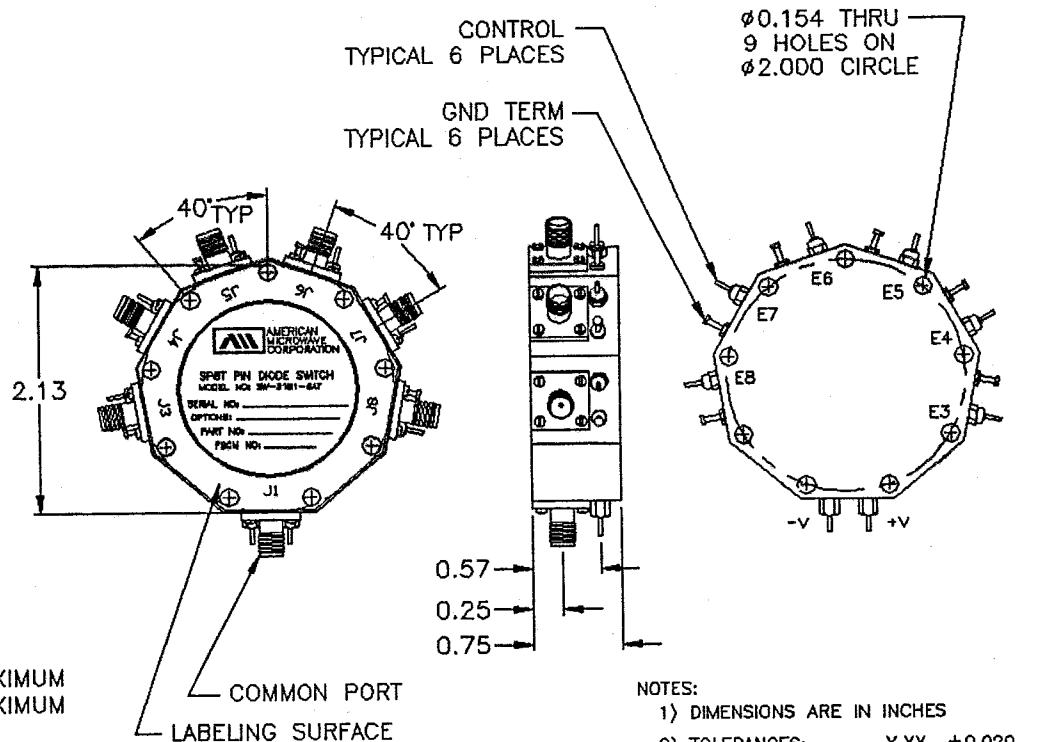
- FREQUENCY RANGE ..... 1-20 GHz MINIMUM
- INSERTION LOSS ..... 1-8 GHz 2.5 dB MAXIMUM  
8-18 GHz 3.5 dB MAXIMUM  
18-20 GHz 4.5 dB MAXIMUM
- ISOLATION ..... 1-18 GHz, 65 dB MINIMUM  
18-20 GHz, 60 dB MINIMUM
- VSWR (ON/OFF) ..... 2:1 MAXIMUM
- SWITCHING TIME  
RISE (10% RF TO 90% RF) ..... 200 nS MAXIMUM  
FALL (90% RF TO 10% RF) ..... 10 nS MAXIMUM  
ON (50% TTL TO 90% RF) ..... 800 nS MAXIMUM  
OFF (50% TTL TO 10% RF) ..... 20 nS MAXIMUM
- RF POWER RATINGS ..... +27 dBm, MAXIMUM
- CONTROL ..... TTL COMPATIBLE, UNITY LOAD  
6 INDIVIDUAL CONTROLS  
LOGIC "0" = ISOLATION  
LOGIC "1" = INSERTION LOSS
- POWER SUPPLY ..... +5VDC ±5% @ 260 mA MAXIMUM  
-15VDC ±5% @ 70 mA MAXIMUM
- CONNECTORS  
RF INPUT/OUTPUT ..... SMA FEMALE  
POWER ..... SOLDER PIN  
CONTROL ..... SOLDER PIN
- SIZE ..... 2.13" DIAMETER x 0.75" THICK

## AVAILABLE OPTIONS

- A01 ..... 50Ω CONTROL IMPEDANCE
- A02 ..... 100Ω CONTROL IMPEDANCE
- A03 ..... INVERSE CONTROL LOGIC (LOGIC "0" INSERTION LOSS)
- A04 ..... EXTENDED FREQUENCY RANGE TO 100 MHz
- A07 ..... INPUT/OUTPUT VIDEO FILTER (0.5 dB EXCESS LOSS)
- A08 ..... SMA MALE CONNECTORS
- A10 ..... +12 TO +15VDC SUPPLY
- A12 ..... 3 BIT BINARY TTL LOGIC DECODER

REVISIONS				DATE	APPROVED
ZONE	REV.	DESCRIPTION			
	A	ORIGINAL RELEASE, JOB # 208208		11/22/92	<i>AMC</i>

## MECHANICAL OUTLINE




### NOTES:

- 1) DIMENSIONS ARE IN INCHES
- 2) TOLERANCES: X.XX ±0.020  
X.XXX ±0.010
- 3) WEIGHT: APPROX. 4.5 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

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APPROVALS	DATE	SIZE	SHEET 1 OF 2
DRAWN <i>W.L.P.</i> CHECKED <i>M. H. H.</i>	11/22/92	A	DWG. # 100-2824