

## DESCRIPTION

AMC MODEL SW-2040-8AT IS AN ABSORPTIVE SP8T SWITCH MODULE WITH INTEGRAL TTL DRIVER, PACKAGED IN A RADIAL HOUSING. DESIGNED FOR LOW LOSS, LOW VSWR, AMPLITUDE AND PHASE BALANCED APPLICATIONS.

## SPECIFICATIONS

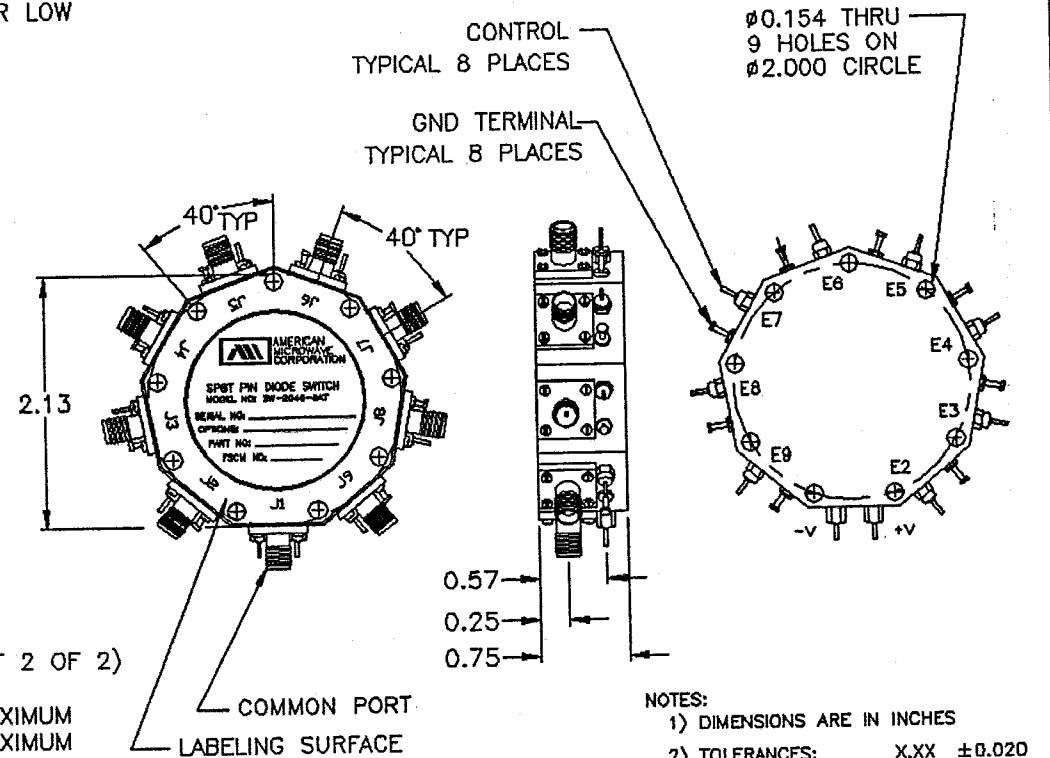
- FREQUENCY RANGE ..... 2-4 GHz MINIMUM
- INSERTION LOSS ..... 2.0 dB MAXIMUM
- AMPLITUDE BALANCE .....  $\pm 0.3$  dB MAXIMUM
- PHASE BALANCE .....  $\pm 5^\circ$  MAXIMUM
- ISOLATION ..... 60 dB MINIMUM
- VSWR (ON/OFF) ..... 1.3:1 MAXIMUM
- RF POWER RATINGS ..... +27 dBm, MAXIMUM
- SWITCHING TIME:
  - RISE (10% RF TO 90% RF) ..... 100 ns MAXIMUM
  - FALL (90% RF TO 10% RF) ..... 100 ns MAXIMUM
  - ON (50% TTL TO 90% RF) ..... 800 ns MAXIMUM
  - OFF (50% TTL TO 10% RF) ..... 800 ns MAXIMUM
- CONTROL ..... TTL COMPATIBLE, UNITY LOAD  
8 INDIVIDUAL CONTROLS  
LOGIC "0" = ISOLATION  
LOGIC "1" = INSERTION LOSS  
(SEE TRUTH TABLE ON SHEET 2 OF 2)
- POWER SUPPLY ..... +5VDC  $\pm 5\%$  @ 280 mA MAXIMUM  
-15VDC  $\pm 5\%$  @ 75 mA MAXIMUM
- CONNECTORS
  - RF INPUT/OUTPUT ..... SMA FEMALE
  - POWER ..... SOLDER PIN
  - CONTROL ..... SOLDER PIN
- SIZE ..... 2.13" DIAMETER  $\times$  0.75"

## AVAILABLE OPTIONS

- A01 ..... 50 $\Omega$  CONTROL IMPEDANCE
- A02 ..... 100 $\Omega$  CONTROL IMPEDANCE
- A03 ..... INVERSE CONTROL LOGIC (LOGIC "0" INSERTION LOSS)
- A04 ..... EXTENDED FREQUENCY RANGE (CONSULT FACTORY)
- 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

ZONE		REV.	DESCRIPTION	DATE	APPROVED
A			ORIGINAL RELEASE, JOB # 2086	11/22/92	<i>My</i>

## MECHANICAL OUTLINE



- NOTES:
- 1) DIMENSIONS ARE IN INCHES
  - 2) TOLERANCES: X.XX  $\pm 0.020$   
X.XXX  $\pm 0.010$
  - 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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		<b>PRODUCT FEATURE</b> <b>SW-2040-8AT</b> 2 TO 4 GHz, NON-REFLECTIVE, RADIAL, SP8T SWITCH MODULE	
APPROVALS	DATE	SIZE	SHEET 1 OF 2
DRAWN: <i>WSP</i> CHECKED: <i>[Signature]</i>	11/22/92	A	DWG. # 100-2896