

DESCRIPTION

AMC MODEL SW-1020-8AT 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

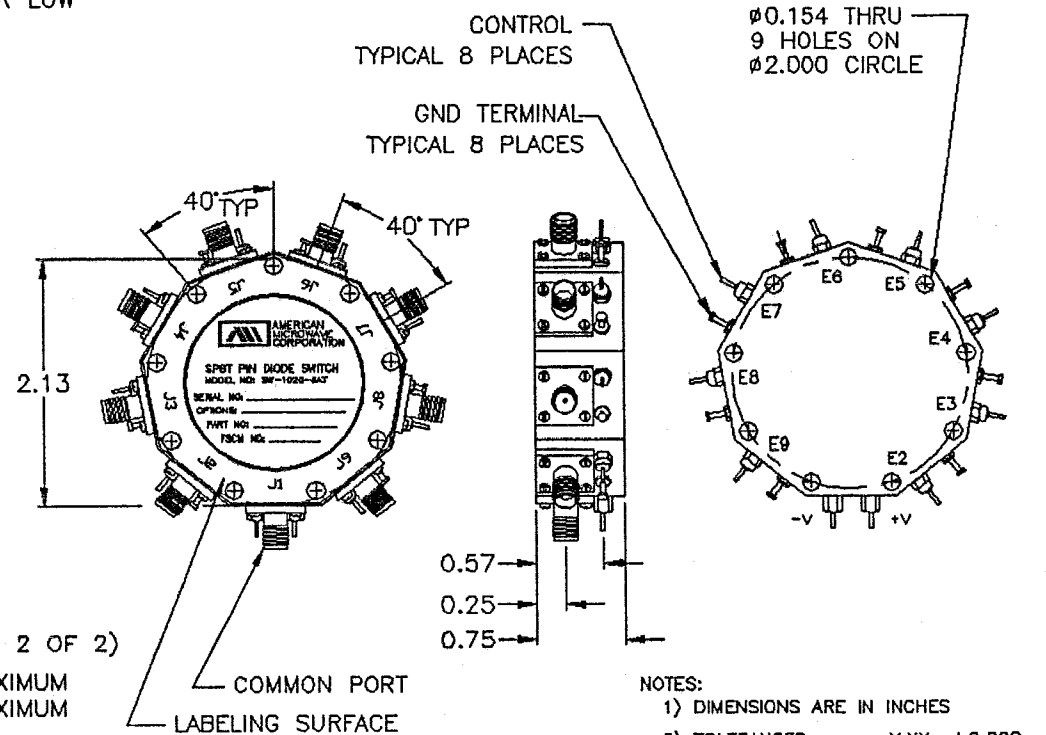
- FREQUENCY RANGE 1-2 GHz MINIMUM
- INSERTION LOSS 1.5 dB MAXIMUM
- AMPLITUDE BALANCE ± 0.3 dB MAXIMUM
- PHASE BALANCE $\pm 3^\circ$ MAXIMUM
- ISOLATION 70 dB MINIMUM
- VSWR (ON/OFF) 1.3:1 MAXIMUM
- RF POWER RATINGS +27 dBm, MAXIMUM
- SWITCHING TIME
 - RISE (10% RF TO 90% RF) 100 ns MAXIMUM
 - FALL (90% 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 x 0.75"

AVAILABLE OPTIONS

- A01 50 Ω CONTROL IMPEDANCE
- A02 100 Ω 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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE, JOB # 2237E	11/22/92	<i>AKJ</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	PRODUCT FEATURE	
DRAWN <i>WSP</i>	1/22/92	SW-1020-8AT	
CHECKED <i>WSP</i>	11/22/92	1 TO 2 GHz, NON-REFLECTIVE, RADIAL, SP8T SWITCH MODULE	
		SIZE A	SHEET 1 OF 2
		DWG. # 100-2895	

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