

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE, JOB # 204108-2	11/22/92	<i>MJ</i>

DESCRIPTION

AMC MODEL SW-2000-7AT IS AN ABSORPTIVE BROAD BAND SP7T SWITCH MODULE WITH INTEGRAL TTL DRIVER, DESIGNED TO MAINTAIN LOW HARMONIC RF CONTENTS, AND HIGH ISOLATION. APPLICATIONS ARE FOR HIGHLY SENSITIVE LOW-NOISE RADARS AND MISSILE SYSTEMS.

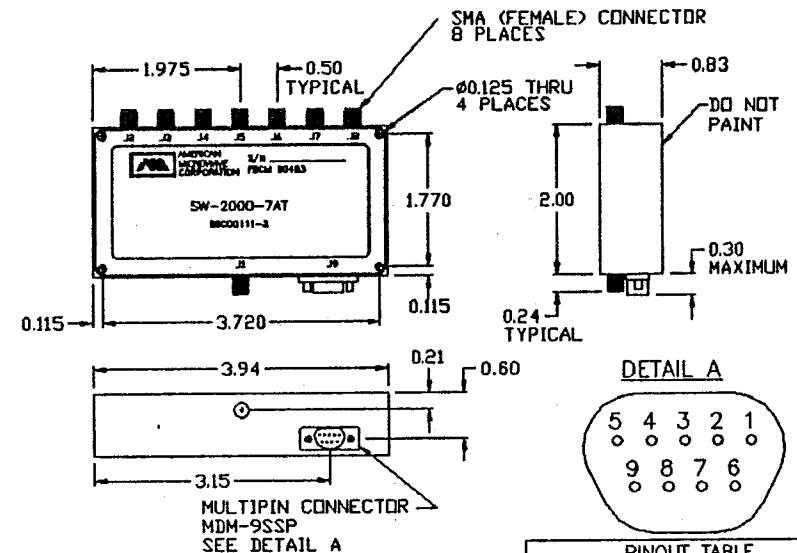
SPECIFICATIONS

- FREQUENCY RANGE 20 MHz-2.0 GHz MINIMUM
- INSERTION LOSS 2.0dB MAXIMUM
- AMPLITUDE BALANCE ±0.25dB MAXIMUM
- ISOLATION 80dB MINIMUM
- VSWR (ON/OFF) 1.5:1 MAXIMUM
- SWITCHING TIME
 - RISE (10% RF TO 90% RF) 200 nsec MAXIMUM
 - FALL (90% RF TO 10% RF) 200 nsec MAXIMUM
 - ON (50% TTL TO 90% RF) 700 nsec MAXIMUM
 - OFF (50% TTL TO 10% RF) 700 nsec MAXIMUM
- RF POWER RATINGS +20 dBm CW MAXIMUM
- HARMONIC CONTENTS
 - 2nd HARMONIC INTERCEPT +56 dBm MINIMUM
 - 2nd ORDER TWO-TONE INTERCEPT +50 dBm MINIMUM
 - ① 0 dBm INPUT RF POWER
 - 3rd ORDER TWO-TONE INTERCEPT +40 dBm MINIMUM
 - ① 0 dbm INPUT RF POWER
- RF LEAKAGE (CONDUCTIVE/RADIATED) ... > 80 dBc @ 2.0 GHz
- CONTROL 3 BIT BINARY TTL LOGIC
(SEE TRUTH TABLE ON SHEET 2 OF 2)
- POWER SUPPLY +5VDC ±5% @ 200 mA MAXIMUM
-15VDC ±5% @ 120 mA MAXIMUM
- CONNECTORS
 - RF INPUT/OUTPUT SMA (FEMALE)
 - POWER AND CONTROLS 9 PIN MALE MINIATURE MULTIPIN CONNECTOR (MDH-9SSP)
- SIZE 3.94" x 2.00" x 0.83"

AVAILABLE OPTIONS

- A01 SMA MALE CONNECTORS
- A02 ±12 TO ±18 VDC SUPPLIES
- A03 7 INDIVIDUAL CONTROLS
- A04 INVERSE CONTROL LOGIC

MECHANICAL OUTLINE




- NOTES:
- 1) DIMENSIONS ARE IN INCHES
 - 2) TOLERANCES: X.XX ±0.020
X.XXX ±0.010
 - 3) WEIGHT: APPROX. 12 OZ

PINOUT TABLE	
PIN NUMBER	FUNCTION
1	E0 CONTROL
2	E1 CONTROL
3	E2 CONTROL
4-7	GROUND
8	+5 VDC
9	-15 VDC

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

		AMERICAN MICROWAVE CORPORATION 7311G GROVE RD., FREDERICK, MD. 21701 TEL: (301) 662-4700 FAX: (301) 662-4938	
		PRODUCT FEATURE SW-2000-7AT 20 MHz TO 2 GHz, NON-REFLECTIVE, SP7T SWITCH MODULE	
APPROVALS DRAWN <i>WSP</i> CHECKED <i>[Signature]</i>	DATE 11/22/92	SIZE A	SHEET 1 OF 2

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