

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE, NEW DEVELOPMENT	11/17/92	<i>MJ</i>

DESCRIPTION

AMC MODEL SWS-2183-4D IS A REFLECTIVE BROAD BAND SP4T SWITCH MODULE WITH INTEGRAL TTL DRIVER, PACKAGED IN A LOW PROFILE, HERMETICALLY SEALED HOUSING.

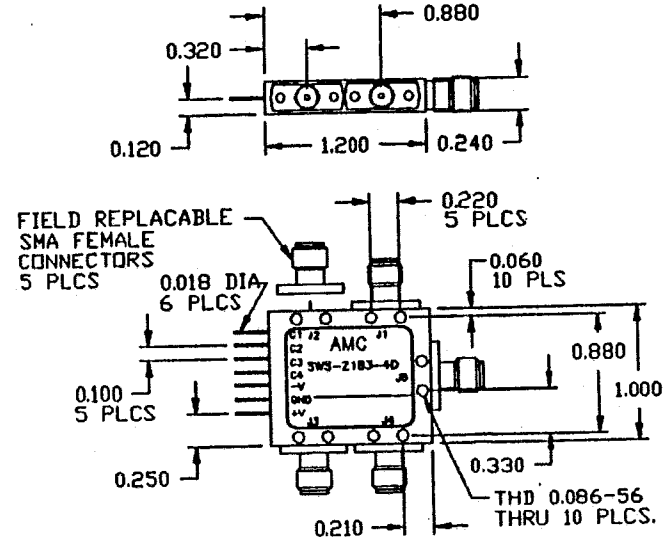
SPECIFICATIONS

- FREQUENCY RANGE 1-18 GHz MINIMUM
- INSERTION LOSS 1- 2 GHz 1.2 dB MAXIMUM
 2- 4 GHz 1.6 dB MAXIMUM
 4- 8 GHz 2.1 dB MAXIMUM
 8-12 GHz 2.6 dB MAXIMUM
 12-18 GHz 3.0 dB MAXIMUM
- ISOLATION 65 dB MINIMUM
- VSWR (ON) 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) 20 nS MAXIMUM
 OFF (50% TTL TO 10% RF) 20 nS MAXIMUM
- RF POWER RATINGS 1W CW, MAXIMUM
- CONTROL TTL COMPATIBLE, UNITY LOAD
 4 INDIVIDUAL CONTROLS
 LOGIC "0" = INSERTION LOSS
 LOGIC "1" = ISOLATION
- POWER SUPPLY + 5VDC ±5% @ 130 mA MAXIMUM
 -12VDC ±5% @ 70 mA MAXIMUM
- CONNECTORS
 RF INPUT/OUTPUT FIELD REPLACEABLE SMA (FEMALE)
 POWER SOLDER PIN
 CONTROL SOLDER PIN
- SIZE 1.20" x 1.00" x 0.24"

AVAILABLE OPTIONS

- A01 50 Ω CONTROL IMPEDANCE
- A02 100Ω CONTROL IMPEDANCE
- A03 INVERSE CONTROL LOGIC (LOGIC "0" ISOLATION)
- A04 EXTENDED FREQUENCY TO 100 MHz
- A07 INPUT/OUTPUT VIDEO FILTER
 (0.5 dB EXCESS LOSS, 2-18 GHz)
- A08 SINGLE ENDED ECL (15 nS ON/OFF TIME)
- A10 -15VDC SUPPLY
- A12 2 BIT DECODER

MECHANICAL OUTLINE




LOGIC TABLE				
C4	C3	C2	C1	RF PATH
1	1	1	0	J5-J1
1	1	0	1	J5-J2
1	0	1	0	J5-J3
0	1	1	1	J5-J4

- NOTES:
- 1) DIMENSIONS ARE IN INCHES
 - 2) TOLERANCES: X.XX ±0.020
X.XXX ±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. 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 SWS-2183-4D 1 TO 18 GHz, SLIM LINE, REFLECTIVE, SP4T SWITCH MODULE	
APPROVALS DRAWN: <i>Wayne Swanson</i> 11/17/92 CHECKED: <i>[Signature]</i> 11/22/92	DATE: 11/17/92	SIZE: A	SHEET 1 OF 2

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