

DESCRIPTION

AMC MODEL SWS-2184-1D IS A REFLECTIVE BROAD BAND SPST SWITCH MODULE WITH INTEGRAL TTL DRIVER PACKAGED IN A LOW PROFILE, HERMETICALLY SEALED HOUSING.

SPECIFICATIONS

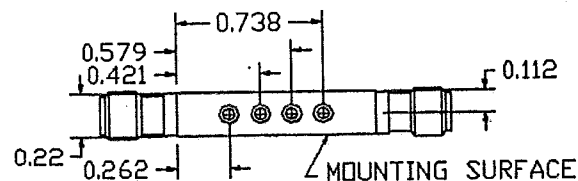
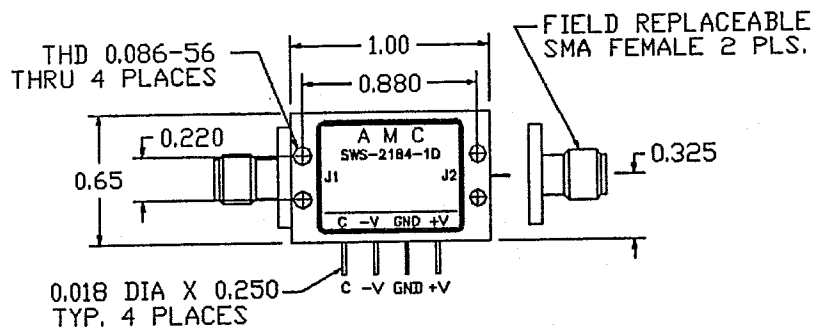
- FREQUENCY RANGE 1-18 GHz MINIMUM
- INSERTION LOSS 1- 2 GHz 1.0 dB MAXIMUM
 2- 4 GHz 1.2 dB MAXIMUM
 4- 8 GHz 1.4 dB MAXIMUM
 8-12 GHz 1.9 dB MAXIMUM
 12-18 GHz 2.4 dB MAXIMUM
- ISOLATION 1- 2 GHz 60 dB MINIMUM
 2-18 GHz 80 dB MINIMUM
- VSWR (ON) 2:1 MAXIMUM
- RF POWER RATING 2W CW, 10W PEAK (1 μS PW)
- 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
- CONTROL TTL COMPATIBLE, UNITY LOAD
 LOGIC "0" = INSERTION LOSS
 LOGIC "1" = ISOLATION
- POWER SUPPLY + 5VDC ±5% @ 50 mA MAXIMUM
 -12VDC ±5% @ 5 mA MAXIMUM
- CONNECTORS
 RF INPUT/OUTPUT FIELD REPLACEABLE SMA (FEMALE)
 POWER SOLDER PIN
 CONTROL SOLDER PIN
- SIZE 1.00" x 0.65" x 0.112"

AVAILABLE OPTIONS

- A01 50Ω CONTROL IMPEDANCE
- A02 100Ω CONTROL IMPEDANCE
- A03 INVERSE CONTROL LOGIC (LOGIC "0" ISOLATION)
- A04 EXTENDED FREQUENCY RANGE TO 100 MHz
- A05 5 WATTS CW MAXIMUM
- A06 2 nS RISE/FALL TIME
- A07 INPUT/OUTPUT VIDEO FILTER
 (ADDITIONAL 0.5 dB EXCESS LOSS, 2-18 GHz)
- A08 SINGLE ENDED ECL (10 nS ON/OFF TIME)
- A09 BALANCED ECL DRIVER (10 nS ON/OFF TIME)
- A10 -15 VOLT POWER SUPPLY

REV. NO.		DESCRIPTION	DATE	APPROVED
ZONE	REV.			
A		ORIGINAL RELEASE, JOB # 20382	11/17/92	<i>[Signature]</i>

MECHANICAL OUTLINE



NOTES:

- 1) DIMENSIONS ARE IN INCHES
- 2) TOLERANCES: X.XX ±0.020
 X.XXX ±0.010
- 3) WEIGHT: APPROX. 0.7 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

APPROVALS	DATE
<i>[Signature]</i>	11/17/92
<i>[Signature]</i>	11/22/92

PRODUCT FEATURE		
SWS-2184-1D		
SLIM LINE 1 TO 18 GHz, REFLECTIVE, PULSE MODULATOR SWITCH		
SIZE A	SHEET 1 OF 2	DWG. # 100-2534