

DESCRIPTION

AMC MODEL SW-2183-1AT-210 IS AN ABSORPTIVE BROAD BAND SPST SWITCH MODULE WITH INTEGRAL DRIVER AND BALANCED ECL CONTROL CAPABILITY FOR HIGH SPEED APPLICATIONS.

SPECIFICATIONS

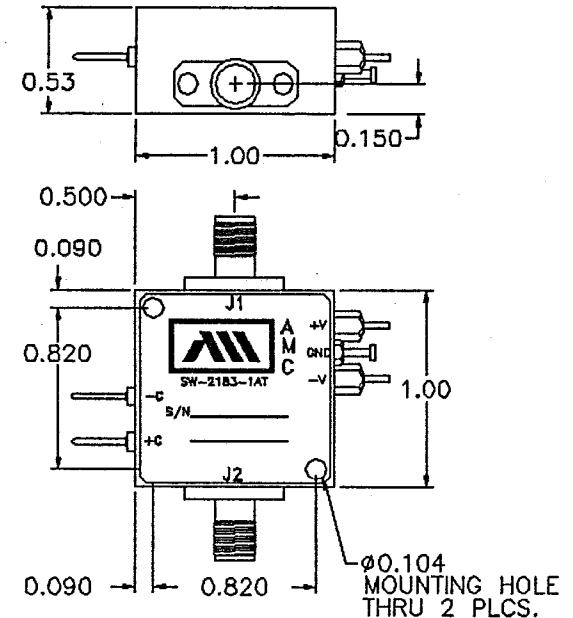
- FREQUENCY RANGE 0.3-18 GHz MINIMUM
- INSERTION LOSS 3.5 dB MAXIMUM
- ISOLATION 0.3- 1.0 GHz 70 dB MINIMUM
1.0-12.4 GHz 80 dB MINIMUM
12.4-18.0 GHz 70 dB MINIMUM
- VSWR (ON/OFF) 2:1 MAXIMUM
- SWITCHING TIME
RISE (10% RF TO 90% RF) 10 nS MAXIMUM
FALL (90% RF TO 10% RF) 10 nS MAXIMUM
ON (50% CTL TO 90% RF) 35 nS MAXIMUM
OFF (50% CTL TO 10% RF) 20 nS MAXIMUM
- CONTROL BALANCED ECL PAIRS (-C, +C),
(100Ω INPUT IMPEDANCE).
- RF POWER RATINGS
OPERATING +27 dBm CW, MAXIMUM
SURVIVAL +30 dBm CW, OR 10 W (1 μS, PW)
- POWER SUPPLY +5VDC ±5% @ 90 mA MAXIMUM
-5VDC ±5% @ 75 mA MAXIMUM
- CONNECTORS
RF INPUT/OUTPUT SMA FEMALE
POWER SOLDER PIN
CONTROL SOLDER PIN
- SIZE 1.00" x 1.00" x 0.53"

AVAILABLE OPTIONS

- A03 INVERSE LOGIC
- A07 INPUT/OUTPUT VIDEO FILTER
(0.5 dB EXCESS LOSS, 2-18 GHz)
- A13 +12 TO +15 VOLTS SUPPLY
- A14 J1 SMA MALE, J2 SMA FEMALE
- A15 J1, J2 SMA MALE
- A16 85 dB ISOLATION (2-18 GHz,
0.3 dB EXCESS LOSS)
- A17 -12 TO -15 VOLTS SUPPLY
- A18 EXTENDED FREQUENCY TO 10 MHz

ZONE		REV.	DESCRIPTION	DATE	APPROVED
A			ORIGINAL RELEASE, JOB # 108170E-1	11/17/92	<i>JM</i>

MECHANICAL OUTLINE




LOGIC TABLE		
C+	C-	RF PATH
1(-0.9V)	0(-1.75V)	ON
0(-1.75V)	1(-0.9V)	OFF

NOTES:

- 1) DIMENSIONS ARE IN INCHES
- 2) TOLERANCES: X.XX ±0.020
X.XXX ±0.010
- 3) WEIGHT: APPROX. 1.5 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	SIZE	SHEET 1 OF 2
DRAWN <i>Wayne Purdy</i> CHECKED <i>W. Healy</i>	11/17/92 11/22/92	A	DWG. # 100-2755