

DESCRIPTION

AMC MODEL SW-2183-1AT-107 IS AN ABSORPTIVE BROAD BAND SPST SWITCH MODULE WITH INTEGRAL DRIVER AND DIFFERENTIAL LINE RECEIVER INTERFACE CAPABILITY FOR APPLICATIONS WHERE CONTROL SIGNALS ARE CARRIED BY LONG AND NOISY TRANSMISSION LINES.

SPECIFICATIONS

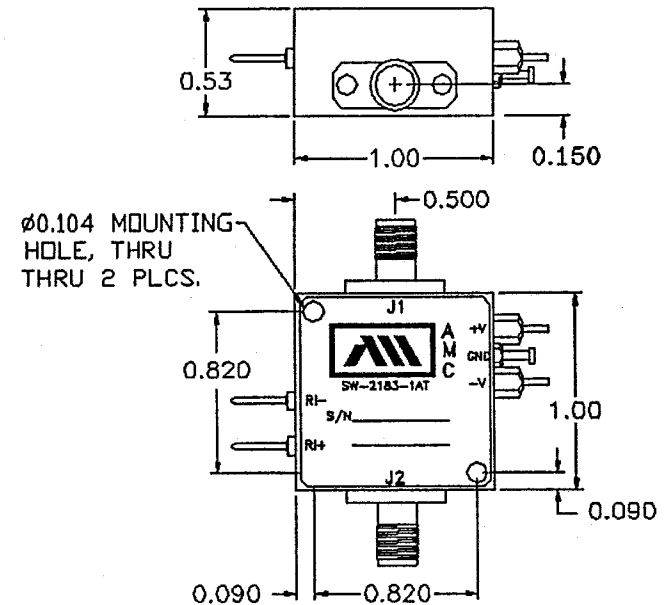
- FREQUENCY RANGE 0.3-18 GHz MINIMUM
- INSERTION LOSS 3.5 dB MAXIMUM
- ISOLATION 0.3- 1.0 GHz 70 dB MINIMUM
1.0-12.4 GHz 80 dB MINIMUM
12.4-18.0 GHz 70dB MINIMUM
- VSWR (ON/OFF) 2 : 1 MAXIMUM
- SWITCHING TIME
RISE (10% RF TO 90% RF) 10 nS MAXIMUM
FALL (90% RF TO 10% RF) 10 nS MAXIMUM
ON (50% CTL TO 90% RF) 50 nS MAXIMUM
OFF (50% CTL TO 10% RF) 50 nS MAXIMUM
- CONTROL DIFFERENTIAL LINE RECEIVER, PAIRS (RI+, RI-), COMPATIBLE TO ST506, ST412, ESPI, AND RS-422 LOGIC FAMILIES. (100Ω INPUT IMPEDANCE).
- RF POWER RATINGS :
OPERATING +27 dBm CW, MAXIMUM
SURVIVAL +30 dBm CW, OR 10 W (1μ S, 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

ZONE		REV.	DESCRIPTION	DATE	APPROVED
		A	ORIGINAL RELEASE, JOB # 210273	11/16/92	<i>M-J</i>

MECHANICAL OUTLINE




RI+	RI-	RF PATH
H	L	ON
L	H	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 Puchan</i> #1/16/92 CHECKED <i>M. M. [Signature]</i> #1/22/92		A	DWG. # 100-2754