

DESCRIPTION

AMC MODEL SW-2181-3 (3S) IS A REFLECTIVE BROAD-BAND SWITCH MODULE WITHOUT DRIVER CIRCUITRY.

SPECIFICATIONS

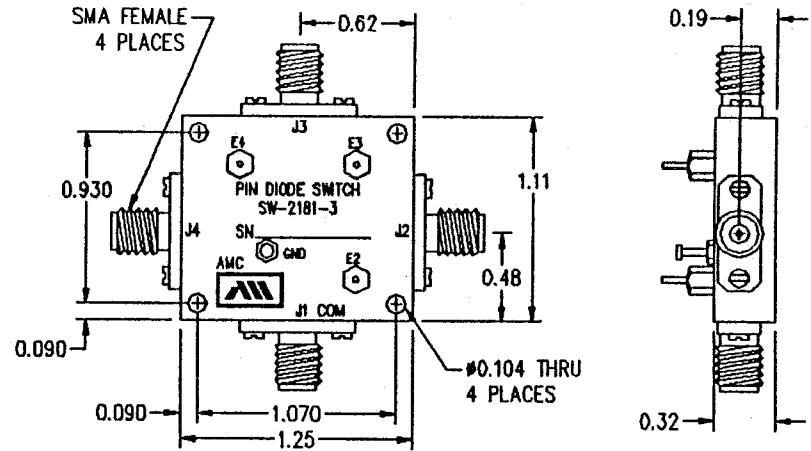
- FREQUENCY RANGE
 - (-3) 1.75-18 GHz MINIMUM
 - (-3S) 0.3-20 GHz MINIMUM
- INSERTION LOSS
 - (-3) 2.5 dB MAXIMUM
 - (-3S) 3.0 dB MAXIMUM
- ISOLATION
 - (-3) 30 dB MINIMUM
 - (-3S) 55 dB MINIMUM
- VSWR (ON) 1.9:1 MAXIMUM
- RF POWER RATINGS +27 dBm CW MAXIMUM
- SWITCHING TIME
 - RISE (10% RF TO 90% RF) 300 ns MAXIMUM
 - FALL (90% RF TO 10% RF) 300 ns MAXIMUM
 - ON (50% TTL TO 90% RF) 500 ns MAXIMUM
 - OFF (50% TTL TO 10% RF) 500 ns MAXIMUM
- CONTROLS CURRENT CONTROLLED
3 INDIVIDUAL CONTROLS
+30 mA = ISOLATION
-30 mA = INSERTION LOSS
(SEE TRUTH TABLE)
- CONNECTORS
 - RF INPUT/OUTPUT SMA FEMALE
 - CONTROL SOLDER PIN
- SIZE 1.25" x 1.11" x 0.32"

AVAILABLE OPTIONS

- A04 INPUT/OUTPUT VIDEO FILTER (0.5 dB EXCESS LOSS)
- A05 EXTENDED FREQUENCY TO 100 MHz
- A13 J1 SMA MALE, J2 AND J3 SMA FEMALE
- A14 J1 SMA FEMALE, J2 AND J3 SMA MALE

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE, AMC DWG# 200-1568 & 200-1904	11/22/92	<i>Amc</i>

MECHANICAL OUTLINE



TRUTH TABLE			
E4	E3	E2	RF PATH
+30mA	+30mA	-30mA	J1-J2
+30mA	-30mA	+30mA	J1-J3
-30mA	+30mA	+30mA	J1-J4

- NOTES:
- 1) DIMENSIONS ARE IN INCHES
 - 2) TOLERANCES: X.XX ±0.020
X.XXX ±0.010
 - 3) WEIGHT: APPROX. 2.0 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
DRAWN <i>WSP</i>	11/22/92
CHECKED <i>[Signature]</i>	11/22/92

PRODUCT FEATURE

SW-2181-3 (3S)

1.75-18 GHz, REFLECTIVE SP3T SWITCH MODULE

SIZE A SHEET 1 OF 2 DWG. # 100-2900