

REVISIONS			DATE	APPROVED
ZONE	REV.	DESCRIPTION		
	A	ORIGINAL RELEASE, JOB # 212326-1	7/8/93	<i>[Signature]</i>

DESCRIPTION

AMC MODEL SW-2181-2A-171 IS A REFLECTIVE SPDT SWITCH MODULE WITH INTEGRAL TTL DRIVER, PACKAGED IN A MINIATURE POSTAGE STAMP SIZE HOUSING, DESIGNED FOR HIGH ISOLATION AND FAST SWITCHING APPLICATIONS.

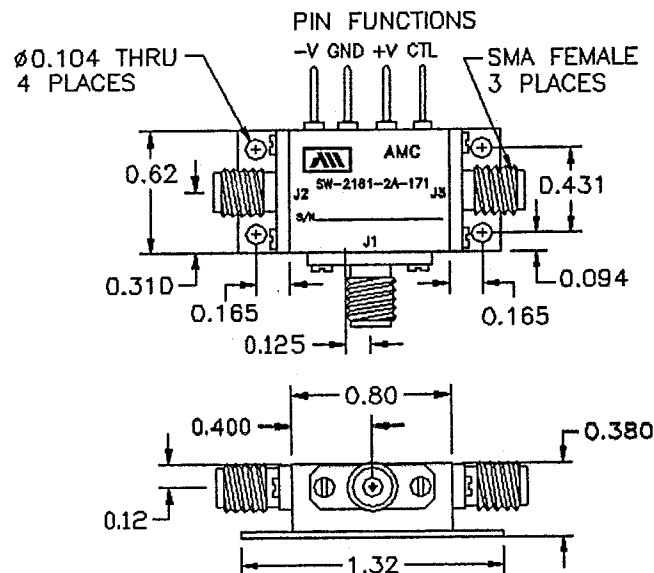
SPECIFICATIONS

- FREQUENCY 1-18 GHz MINIMUM
- INSERTION LOSS 3.5 dB MAXIMUM
- ISOLATION 70 dB MINIMUM
- VSWR (ON) 1.4:1 MAXIMUM
- SWITCHING TIME
 - RISE (10% RF TO 90% RF) 5 ns MAXIMUM
 - FALL (90% RF TO 10% RF) 5 ns MAXIMUM
 - ON (50% TTL TO 90% RF) 25 ns MAXIMUM
 - OFF (50% TTL TO 10% RF) 25 ns MAXIMUM
- CONTROL TTL COMPATIBLE, UNITY LOAD SINGLE CONTROL (TOGGLE)
LOGIC "0" = J1-J3 PATH ON
LOGIC "1" = J1-J2 PATH ON
- RF POWER RATINGS +27 dBm CW MAXIMUM
- POWER SUPPLY +5VDC ±5% @ 80 mA MAXIMUM
-6VDC ±5% @ 50 mA MAXIMUM
- CONNECTORS
 - RF INPUT/OUTPUT SMA (FEMALE)
 - POWER SOLDER PIN
 - CONTROL SOLDER PIN
- SIZE 0.80" x 0.62" x 0.38"

AVAILABLE OPTIONS

- A01 50Ω CONTROL IMPEDANCE
- A02 100Ω CONTROL IMPEDANCE
- A03 INVERSE CONTROL LOGIC
- A08 TWO INDIVIDUAL CONTROLS
- A09 INPUT/OUTPUT VIDEO FILTER (0.5 dB EXCESS LOSS)
- A14 J1 SMA MALE, J2 AND J3 SMA FEMALE
- A15 J1 SMA FEMALE, J2 AND J3 SMA MALE
- A16 -12 VDC
- A17 -15 VDC
- A18 -5 VDC

MECHANICAL OUTLINE




NOTES:

- 1) DIMENSIONS ARE IN INCHES
- 2) TOLERANCES: X.XX ±0.020
X.XXX ±0.010
- 3) WEIGHT: APPROX. 1.0 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	PRODUCT FEATURE	
DRAWN <i>WJP</i>	7/8/93	SW-2181-2A-171	
CHECKED <i>[Signature]</i>	7/18/93	1-18 GHz, REFLECTIVE SPDT SWITCH MODULE	
SIZE	A	SHEET 1 OF 2	DWG. # 100-3197