

DESCRIPTION

AMC MODEL SW-2181-2A-202 IS A REFLECTIVE SPDT BAND-SELECT SWITCH WITH INTEGRAL TTL DRIVER, PACKAGED IN A MINIATURE POSTAGE STAMP SIZE HOUSING, DESIGNED FOR ULTRA BROAD-BAND APPLICATIONS SUCH AS WIDE-BAND SWEEP GENERATORS.

SPECIFICATIONS

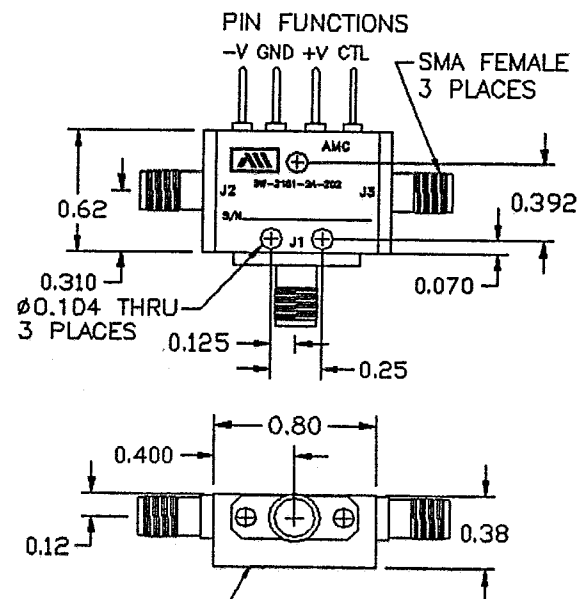
- **FREQUENCY**
 LOW-BAND (J1-J2) 0.01-3 GHz MINIMUM
 HIGH-BAND (J1-J3) 1.0-20 GHz MINIMUM
- **INSERTION LOSS**
 LOW-BAND 1.3 dB MAXIMUM
 HIGH-BAND 2.4 dB MAXIMUM
- **ISOLATION**
 LOW-BAND 0.01-3 GHz, 70 dB MINIMUM
 HIGH-BAND 1-12 GHz, 65 dB MINIMUM
 12-18 GHz, 60 dB MINIMUM
 18-20 GHz, 55 dB MINIMUM
- **VSWR (ON)**
 LOW-BAND 1.6:1 MAXIMUM
 HIGH-BAND 1.8:1 MAXIMUM
- **SWITCHING TIME**
 RISE (10% RF TO 90% RF) 50 ns MAXIMUM
 FALL (90% RF TO 10% RF) 50 ns MAXIMUM
 ON (50% TTL TO 90% RF) 100 ns MAXIMUM
 OFF (50% TTL TO 10% RF) 100 ns MAXIMUM
- **CONTROL** TTL COMPATIBLE, UNITY LOAD
 SINGLE CONTROL (TOGGLE)
 LOGIC "0" = J1-J2 PATH ON (LOW BAND)
 LOGIC "1" = J1-J3 PATH ON (HIGH BAND)
- **RF POWER RATINGS** +27 dBm CW MAXIMUM
- **POWER SUPPLY** +5VDC ±5% @ 65 mA MAXIMUM
 -15VDC ±5% @ 65 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
- A14 J1 SMA MALE, J2 AND J3 SMA FEMALE
- A15 J1 SMA FEMALE, J2 AND J3 SMA MALE

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE, JOB # 2816E	11/22/92	<i>JMD</i>

MECHANICAL OUTLINE




MOUNTING SURFACE

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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		PRODUCT FEATURE SW-2181-2A-202 0.01-3 GHz, REFLECTIVE SPDT SWITCH MODULE	
APPROVALS	DATE	SIZE	SHEET 1 OF 2
DRAWN: <i>WJP</i> CHECKED: <i>[Signature]</i>	11/22/92	A	DWG. # 100-2867