REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE, JOB # 208206-1E	11/10/92	

DESCRIPTION

AMC MODEL SW-2183-1AT-250 IS AN ABSORPTIVE ULTRA BROAD BAND (10 MHz-18 GHz) SPST SWITCH MODULE WITH INTEGRAL TTL DRIVER.

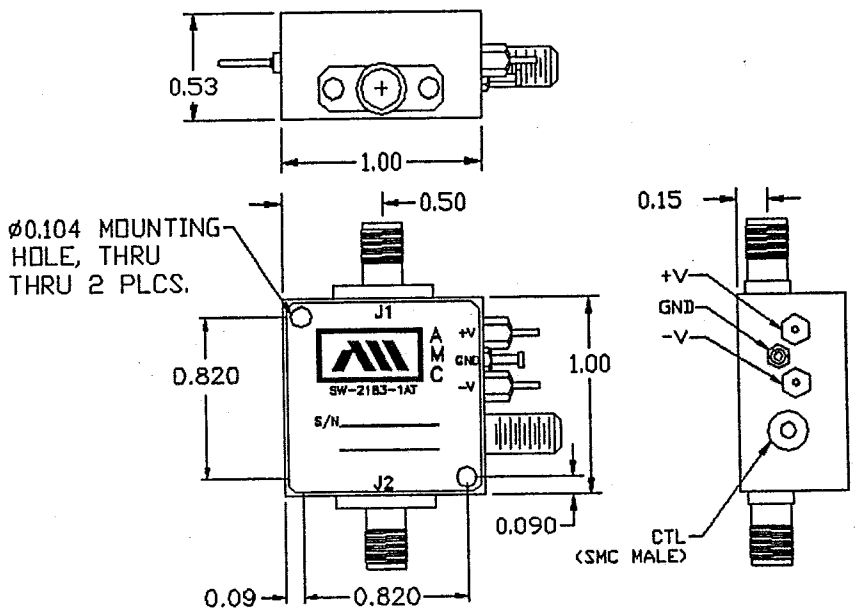
SPECIFICATIONS

- FREQUENCY RANGE ..... 0.01-18 GHz MINIMUM
- INSERTION LOSS ..... 3.5 dB MAXIMUM
- ISOLATION ..... 0.01-0.02 GHz 60 dB MINIMUM
  0.02-1.0 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) ..... 15 nS MAXIMUM
  - FALL (90% RF TO 10% RF) ..... 15 nS MAXIMUM
  - ON (50% CTL TO 90% RF) ..... 80 nS MAXIMUM
  - OFF (50% CTL TO 10% RF) ..... 40 nS MAXIMUM
- CONTROL ..... TTL COMPATIBLE, UNITY LOAD
  LOGIC "0" = INSERTION LOSS
  LOGIC "1" = ISOLATION
- RF POWER RATINGS:
  - OPERATING ..... +20dBm CW MAXIMUM
  - SURVIVAL ..... +27dBM CW OR 10 W (1μS, PW)
- POWER SUPPLY ..... +5VDC ±5% @ 90 mA MAXIMUM
  -12VDC ±5% @ 75 mA MAXIMUM
- CONNECTORS
  - RF INPUT/OUTPUT ..... SMA FEMALE
  - POWER ..... SOLDER PIN
  - CONTROL ..... SMC MALE
- SIZE ..... 1.00" x 1.00" x 0.53"

AVAILABLE OPTIONS

A01 ..... 50Ω CONTROL IMPEDANCE
A02 ..... 100Ω CONTROL IMPEDANCE
A03 ..... INVERSE CONTROL LOGIC (LOGIC "0" ISOLATION)
A13 ..... +12 TO +15 VOLTS SUPPLY
A14 ..... J1 SMA MALE, J2 SMA FEMALE
A15 ..... J1, J2 SMA MALE
A17 ..... -15 VOLTS SUPPLY
A18 ..... SOLDER TYPE CONTROL TERMINAL

MECHANICAL OUTLINE



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

APPROVALS	DATE
DRAWN WSP	11/10/92
CHECKED	11/22/92

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PRODUCT FEATURE
SW-2183-1AT-250
HIGH SPEED, 0.01-18 GHz, NON-REFLECTIVE, SPST MODULATOR/SWITCH

SIZE A	SHEET 1 OF 2	DWG. # 100-2807