

DESCRIPTION:

THE SWN-2183-1AT IS A BROADBAND, HIGH SPEED, LOW LOSS SPST UNIT WITH OFF ARM TERMINATIONS AND INTEGRAL TTL COMPATIBLE DRIVER. IT IS POWERED BY +5V AND -5V SUPPLIES. IT FEATURES RUGGED INTEGRATED CIRCUIT ASSEMBLIES OF CHIP PIN DIODES ON A MICROSTRIP TRANSMISSION LINE AND TTL DRIVER THAT IS ELECTRICALLY AS WELL AS MECHANICALLY INTEGRAL FOR A SMOOTH PULSE MODULATION WITH NO OVERSHOOT OR RINGING.

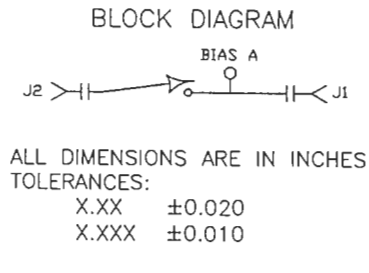
SPECIFICATIONS:

- FREQUENCY: 0.3 GHz TO 18.0 GHz
 - INSERTION LOSS:
 - 0.3-2.0 GHz 2.0 dB MAXIMUM
 - 2.0-8.0 GHz 2.5 dB MAXIMUM
 - 8.0-12.4 GHz 3.0 dB MAXIMUM
 - 12.4-18.0 GHz 3.5 dB MAXIMUM
 - ISOLATION:
 - 0.3-1.0 GHz 45 dB MINIMUM
 - 1.0-12.4 GHz 80 dB MINIMUM
 - 12.4-18.0 GHz 70 dB MINIMUM
 - VSWR:
 - 0.2-2.0 GHz 1.5:1
 - 2.0-8.0 GHz 1.75:1
 - 8.0-18.0 GHz 2.0:1
 - SPEED: RISE TIME: 10 nSEC MAXIMUM (10% TO 90% RF)
 FALL TIME: 10 nSEC MAXIMUM (90% TO 10 % RF)
 DELAY ON: 70 nSEC MAXIMUM (50% TTL TO 90% RF)
 DELAY OFF: 70 nSEC MAXIMUM (50% TTL TO 10 % RF)
 - DC POWER SUPPLY: +5VDC @ 90 mA MAXIMUM
 -5VDC @ 75 mA MAXIMUM
 - CONTROL: TTL LOGIC "0"=ON "1"=OFF
 - WEIGHT: 1.5 OUNCES TYPICAL
 - RF CONNECTORS: SMA FEMALE
 - SIZE: 1.00" (L) x 1.00" (W) x 0.50" (H)
- AVAILABLE OPTIONS:**
- 001 TWO SMA MALE RF CONNECTORS
 - 002 ONE SMA MALE AND ONE SMA FEMALE CONNECTORS
 - 003 SMC CONTROL CONNECTOR (SOLDER TYPE IS STANDARD)
 - 005 50 OHMS CONTROL IMPEDENCE
 - 006 +5V, -15V
 - 103 INTEGRAL VIDEO FILTERS
 - HS 2-18 GHz INSERTION LOSS INCREASE OF 0.75 dB MAX
 HIGH SPEED VARIATION
 - R REFLECTIVE
 - 506F 5.4 TO 5.7 GHz
 2 dB MAX INSERTION LOSS
 50 dB MIN ISOLATION
 50 nS MAX RISE/FALL TIME

ENVIRONMENTAL RATINGS

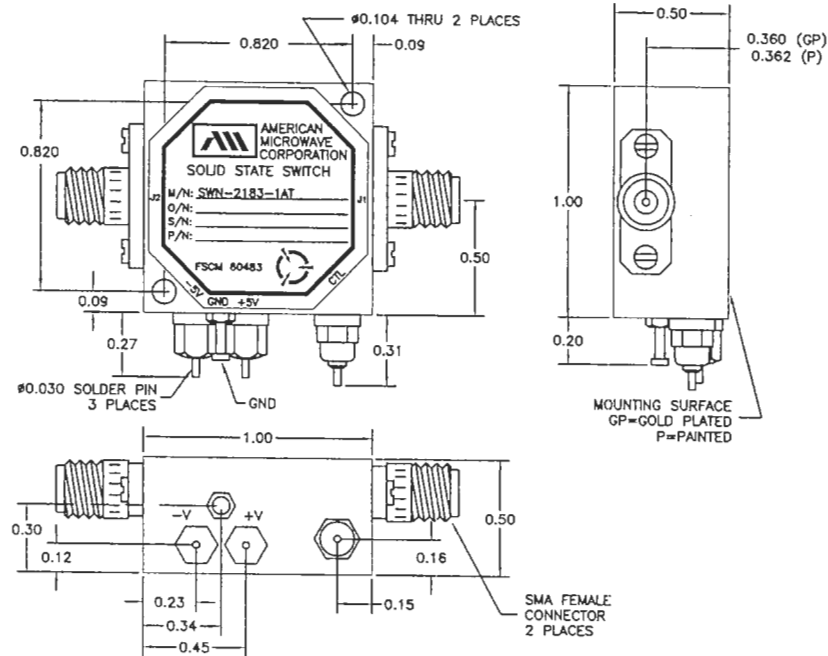
- TEMPERATURE: -0°C TO +50°C (OPERATING)
 -65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
 NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION



REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
		- ORIGINAL RELEASE, JOB#404065X-1	4/26/04

MECHANICAL OUTLINE



APPROVALS		DATE	AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND	
DRAWN	EJE	4/26/04	TITLE	
REDRAWN	JDJ	8/24/04	PRODUCT FEATURE: SWN-2183-1AT 0.3 TO 18 GHz, SINGLE POLE SINGLE THROW SWITCH	
ISSUED	PA	8/31/04	SIZE	FSCM NO.
			A	60483
			DWG NO.	REV.
			100-6977	-
			SCALE	SHEET
			N/S	1 of 3