

DESCRIPTION:

THE SWN-2183-1AT OPTION 118 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. OPTIMIZED FOR 1 TO 18 GHz OPERATION.

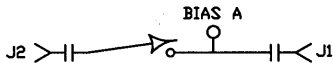
SPECIFICATIONS:

- FREQUENCY: 1 GHz TO 18 GHz
- INSERTION LOSS: 3.5 dB MAXIMUM
- ISOLATION: 70 dB MINIMUM
- VSWR: 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:

- 118 OPTIMIZED FOR 1 TO 18 GHz

BLOCK DIAGRAM



ALL DIMENSIONS ARE IN INCHES

TOLERANCES:

- X.XX ±0.020
- X.XXX ±0.010

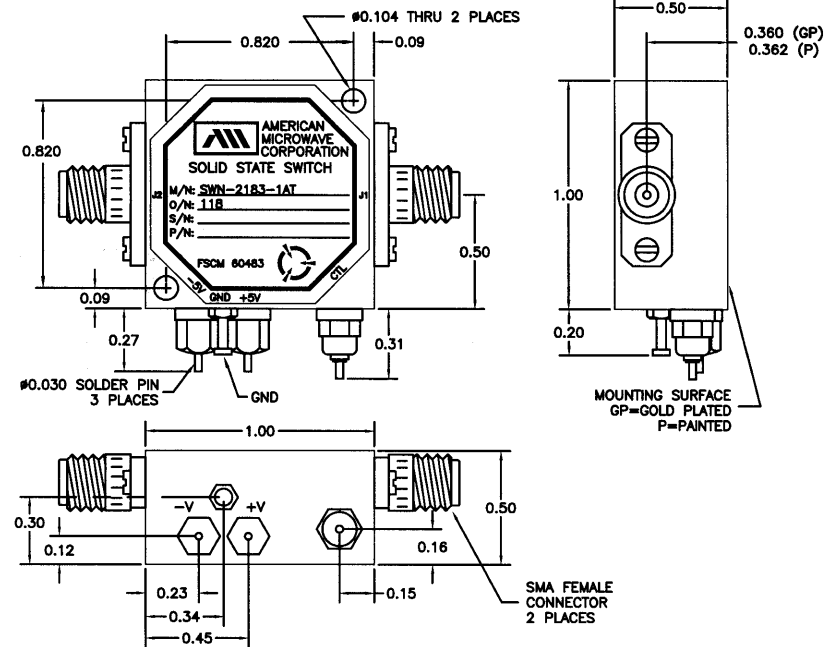
ENVIRONMENTAL RATINGS

- 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

ZONE		REV.	DESCRIPTION	DATE	APPROVED
			- ORIGINAL RELEASE, JOB# 501013-1	2/05/05	

MECHANICAL OUTLINE



AMERICAN MICROWAVE CORPORATION

7311-G GROVE ROAD
 FREDERICK, MARYLAND 21704 USA
 TEL: 301-662-4700 FAX: 301-662-4938
 WEBSITE: www.americanmicrowavecorp.com
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 ISO 9001:2000 CERTIFIED



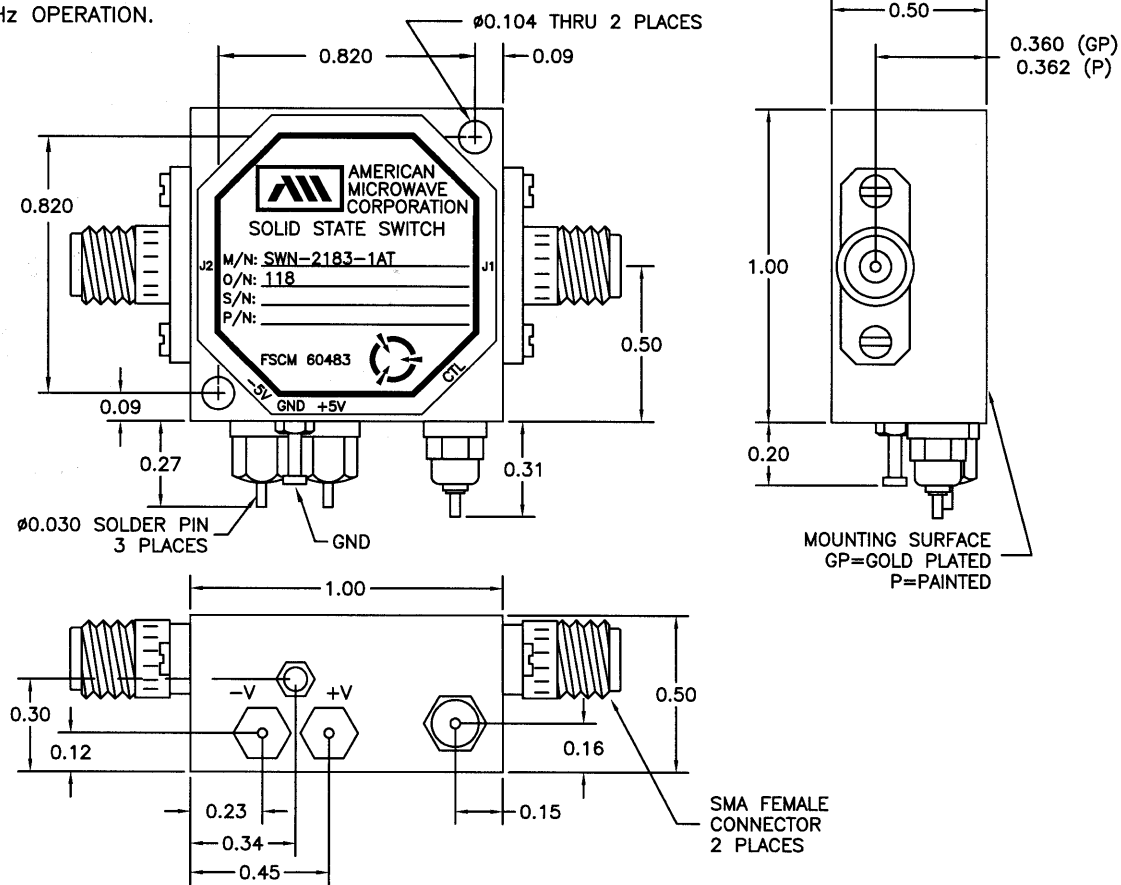
APPROVALS		DATE	TITLE		
DRAWN <i>W3C/S</i>		2/05/05	PRODUCT FEATURE SWN-2183-1AT OPTION 118		
CHECKED			SIZE A	FSCM NO. 60483	DWG NO. 100-7329
ISSUED			SCALE N:S	SHEET 1 OF 3	REV. -

DESCRIPTION:

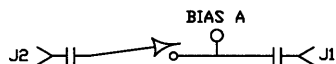
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MECHANICAL OUTLINE



BLOCK DIAGRAM



ALL DIMENSIONS ARE IN INCHES
TOLERANCES:

X.XX ±0.020
X.XXX ±0.010

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APPROVALS		DATE	TITLE		
DRAWN <i>WBC</i>		2/05/05	OUTLINE DRAWING SWN-2183-1AT OPTION 118		
CHECKED			SIZE A	FSCM NO. 60483	DWG NO. 100-7329
ISSUED			1 TO 18 GHz, SINGLE POLE SINGLE THROW SWITCH		REV. -
SCALE N:S			SHEET 2 OF 3		