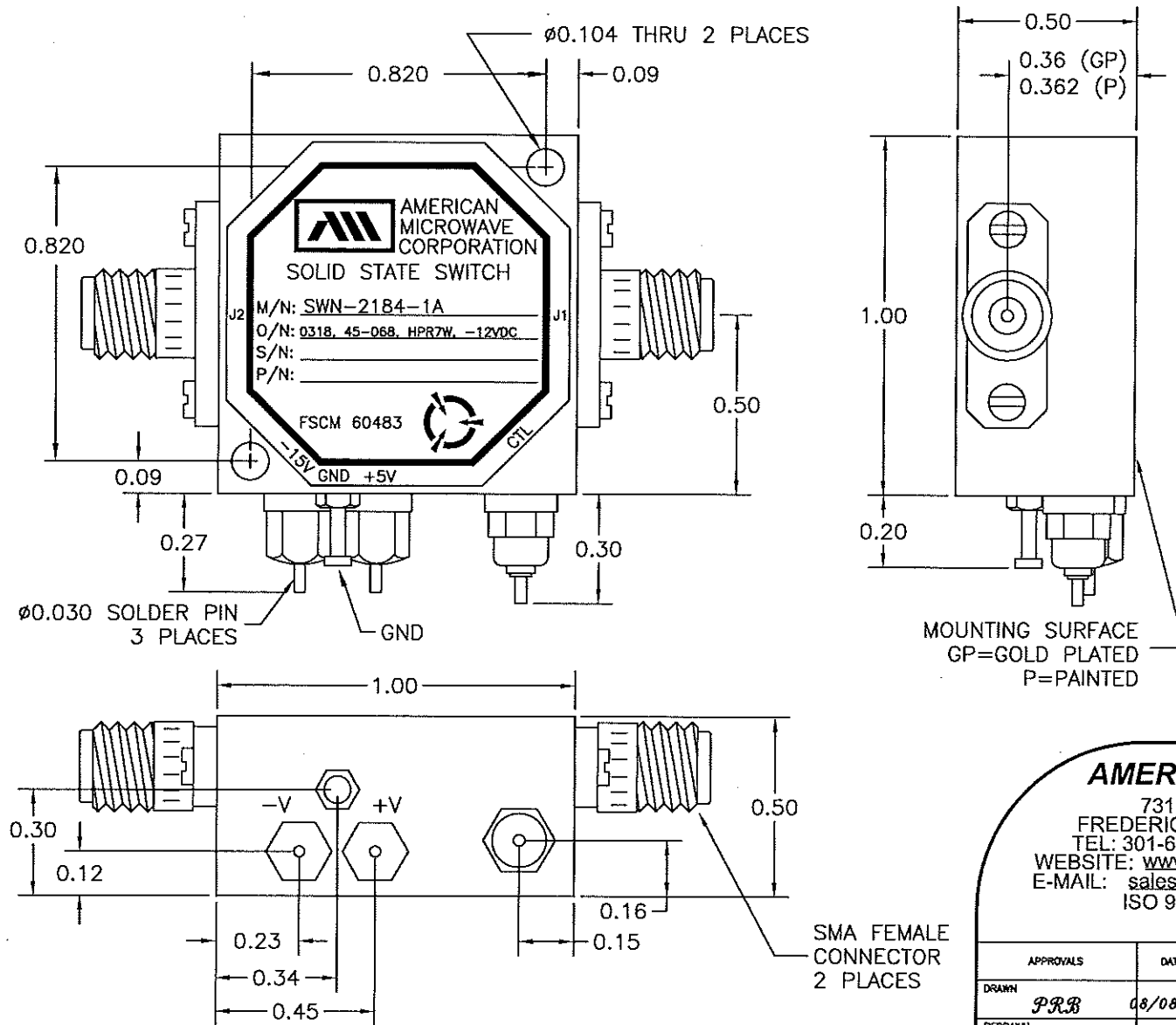


DESCRIPTION

AMC MODEL SWN-2184-1A OPTIONS 0318, 45-068, HPR7W, -12VDC IS A SPST REFLECTIVE PIN-DIODE SWITCH/MODULATOR OPTIMIZED FOR A FREQUENCY RANGE OF 0.3 TO 18 GHz WITH THE HIGH POWER OPTION.

MECHANICAL OUTLINE



ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

AMERICAN MICROWAVE CORPORATION

7311-G GROVE ROAD
FREDERICK, MARYLAND 21704 USA
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WEBSITE: www.americanmicrowavecorp.com
E-MAIL: sales@americanmicrowavecorp.com
ISO 9001:2000 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN	<i>PRB</i>	08/08/06	PRODUCT FEATURE SWN-2184-1A		
REDRAWN	<i>RA</i>	09/12/06	OPTION: 0318, 45-068, HPR7W, -12VDC 0.3 TO 18 GHz SPST REFLECTIVE PIN-DIODE SWITCH		
ISSUED			SIZE	FSCM NO.	DWG NO.
			A	60483	100-6986-4
			SCALE	N:S	SHEET
					2 OF 4
					REV.
					A

DESCRIPTION

AMC MODEL SWN-2184-1A OPTIONS 0318, 45-068, HPR7W, -12VDC IS A SPST REFLECTIVE PIN-DIODE SWITCH/MODULATOR OPTIMIZED FOR A FREQUENCY RANGE OF 0.3 TO 18 GHz WITH THE HIGH POWER OPTION.

FEATURES

- 3.1 TO 3.5 GHz
- LOW LOSS
- HIGH POWER
- HIGH ISOLATION
- TTL LOGIC COMPATIBLE
- MINIATURE SIZE

SPECIFICATIONS

- FREQUENCY RANGE 0.3 TO 18 GHz
- INSERTION LOSS 2.5dB MAXIMUM
- ISOLATION 60dB MINIMUM
- VSWR 2.0:1
- RISE TIME 100ns MAXIMUM, 75ns TYPICAL
- RECOVERY TIME 250ns MAXIMUM, 220ns TYPICAL
- VIDEO-TRANSIENTS $\leq 2.0V$ PEAK TO PEAK, 300 MHz BANDWIDTH
 $\leq 2.0V$ PEAK TO PEAK, 20 MHz BANDWIDTH
- RF INPUT POWER 20 WATTS PEAK, 7 WATTS AVERAGE
- DC POWER (NO LOAD)
 - +V +5VDC @ 100mA
 - V -12VDC @ 50mA MAXIMUM
- SIZE 1.0" x 1.0" x 0.5"
- WEIGHT ≤ 1.0 OZ.

OPTIONS

- 0318 0.3 TO 18 GHz FREQUENCY RANGE
- 45-068 HIGH POWER OPTION
- HPR7W 10 WATT POWER OPTION
- -12VDC -12VDC

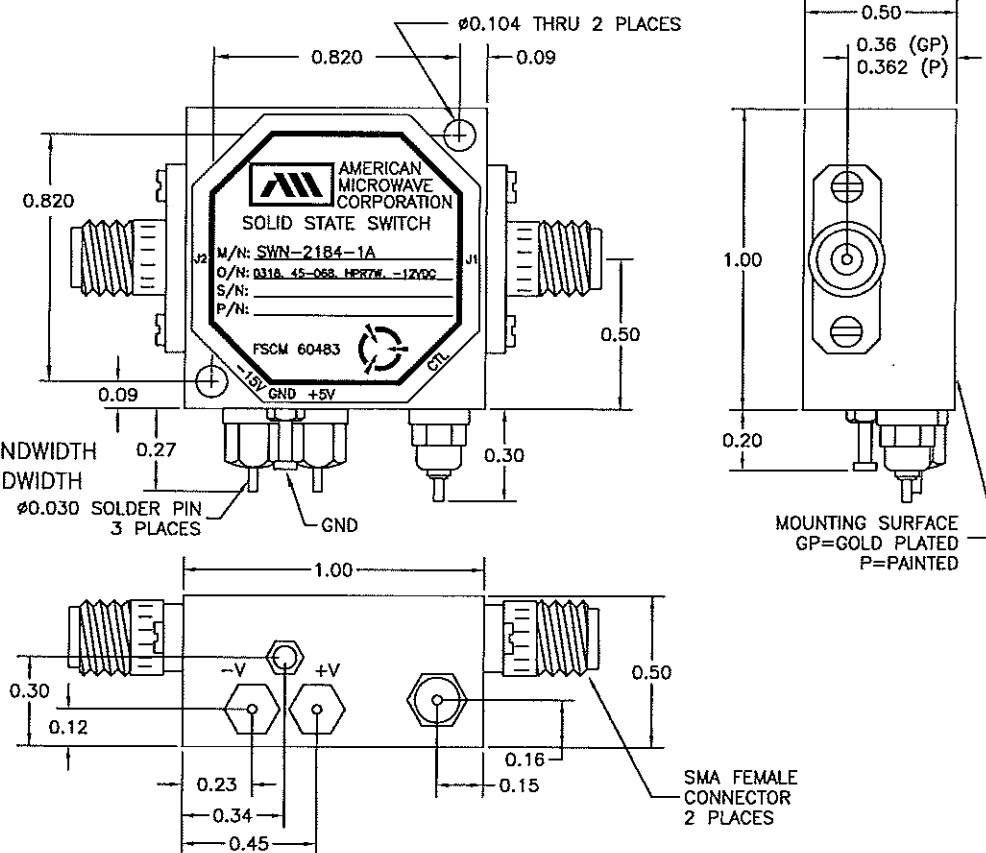
ENVIRONMENTAL RATINGS

- TEMPERATURE -55°C TO +85°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

ALL DIMENSIONS ARE IN INCHES
 TOLERANCES:
 X.XX ± 0.020
 X.XXX ± 0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	SEE ECR#08-003 JOB# 712249PE	01/15/08	<i>[Signature]</i>



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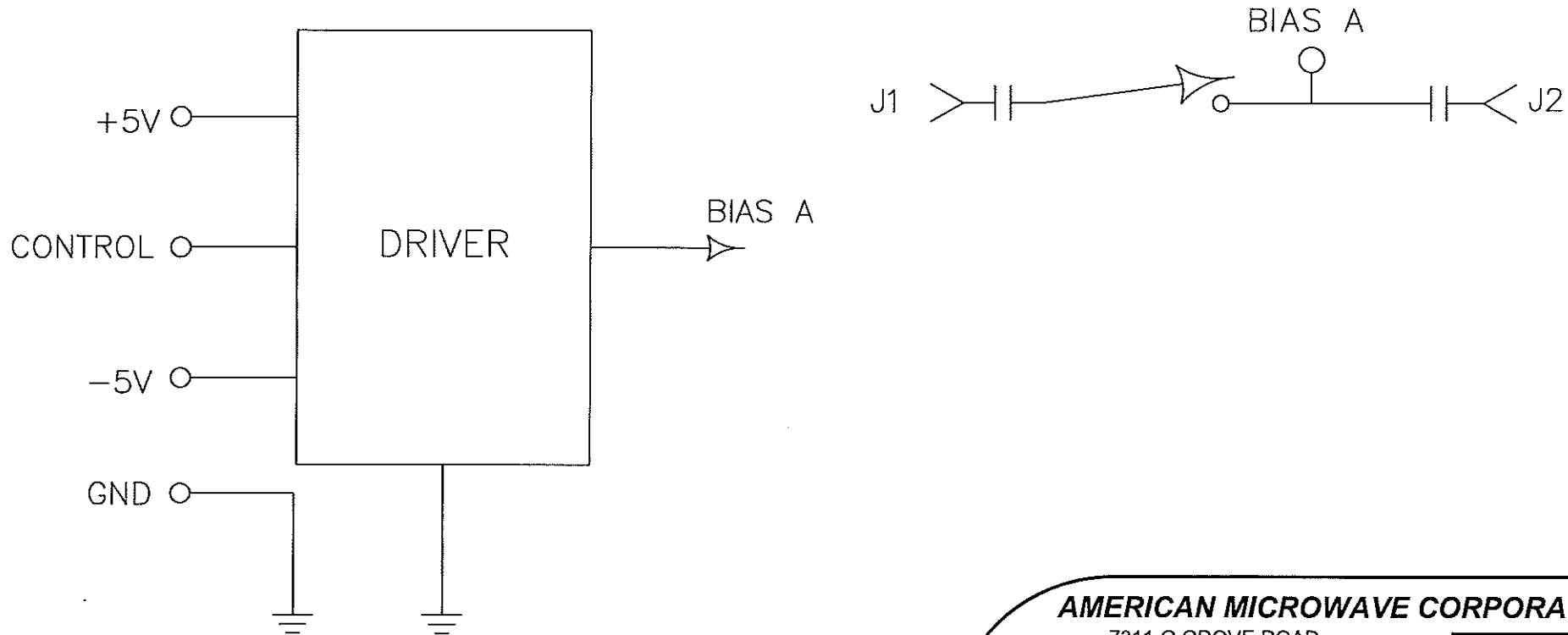


APPROVALS		DATE	TITLE			REV.
DRAWN	<i>PRB</i>	08/08/06	PRODUCT FEATURE SWN-2184-1A			
REDRAWN	<i>RA</i>	09/12/06	OPTION: 0318, 45-068, HPR7W, -12VDC 0.3 TO 18 GHz SPST REFLECTIVE PIN-DIODE SWITCH			
ISSUED			SIZE	FSCM NO.	DWG NO.	
			A	60483	100-6986-4	A
			SCALE	N:S	SHEET	1 OF 4

DESCRIPTION

AMC MODEL SWN-2184-1A OPTIONS 0318, 45-068 , HPR7W, -12VDC IS A SPST REFLECTIVE PIN-DIODE SWITCH/MODULATOR OPTIMIZED FOR A FREQUENCY RANGE OF 0.3 TO 18 GHZ WITH THE HIGH POWER OPTION.

FUNCTIONAL BLOCK DIAGRAM



CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE		
DRAWN		08/08/06	PRODUCT FEATURE		
REDRAWN		09/12/06	SWN-2184-1A		
ISSUED			OPTION: 0318, 45-068, HPR7W, -12VDC		
			0.3 TO 18 GHZ SPST REFLECTIVE PIN-DIODE SWITCH		
SIZE	FSCM NO.	DWG NO.	REV.		
A	60483	100-6986-4	A		
SCALE N:S			SHEET 3 OF 4		