

DESCRIPTION

AMC MODEL SWN-218-2DR-STANDARD OPTION: 400M2, HPR5W IS A SINGLE POLE TWO THROW, HIGH POWER (5 WATTS) REFLECTIVE T/R SWITCH MODULE WITH VERY LOW INSERTION LOSS, HIGH ISOLATION, LOW VIDEO TRANSIENT AND WITH INTEGRAL TTL DRIVER, DESIGNED FOR 400 MHZ TO 2.0 GHZ FREQUENCY RANGE OPERATION.

SPECIFICATIONS

- FREQUENCY RANGE: 400 MHz TO 2.0 GHz (USABLE TO 2.5 GHz)
- INSERTION LOSS: 1.0 dB TYPICAL, 1.25 dB MAXIMUM
- ISOLATION: 22 dB TYPICAL, 20 dB MINIMUM
- VSWR (ALL PORTS): 1.8:1
- SWITCHING SPEED:
(50% TTL TO 90/10% RF) 50 nS MAXIMUM
- RF POWER: 5 WATTS
- CONTROL: TTL SINGLE ENDED 1 BIT
- POWER SUPPLY: +12 VDC @ 25 mA MAXIMUM
-12 VDC @ 25 mA MAXIMUM
- CONNECTORS (RF): SMA FEMALE, 3 PLACES
- CONNECTORS (POWER): SOLDER PINS
- CONNECTORS (CONTROL): SOLDER PINS
- LOGIC "0": J1 TO J2
- LOGIC "1": J1 TO J3
- SIZE: 1.20" (L) x 1.00" (W) x 0.50" (H)
- WEIGHT: 1.5 OUNCE TYPICAL

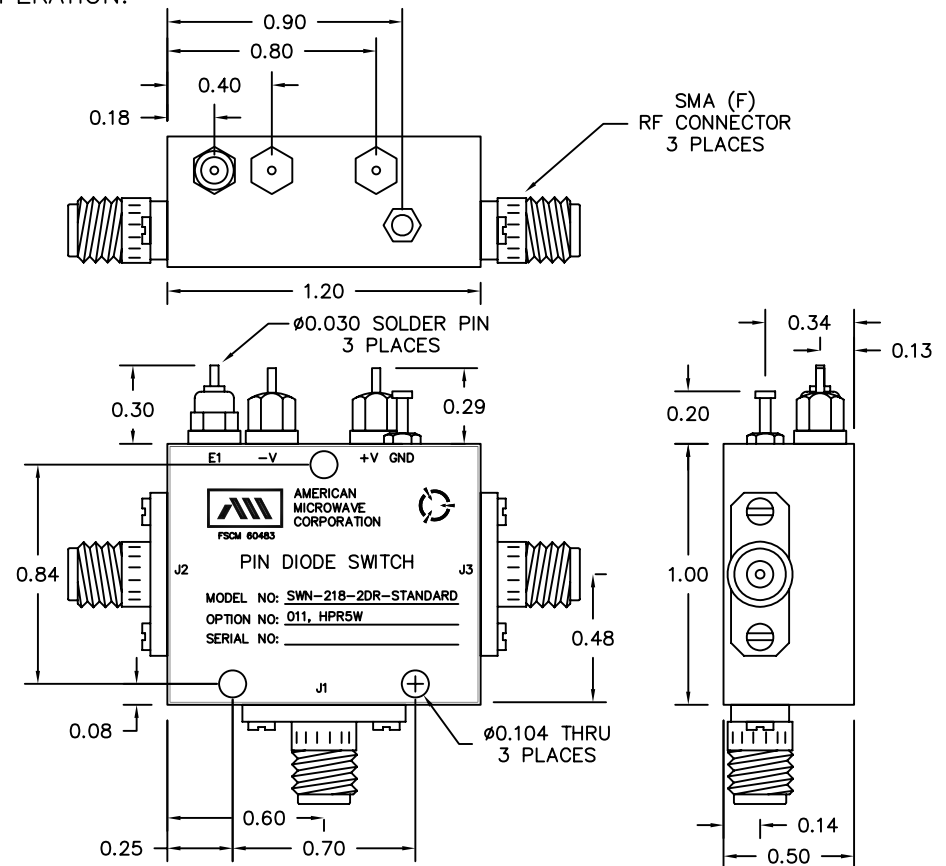
ENVIRONMENTAL RATINGS

- **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
	-	ORIGINAL JOB# 606108	08/07/06	



AMERICAN MICROWAVE CORPORATION

7311-G GROVE ROAD
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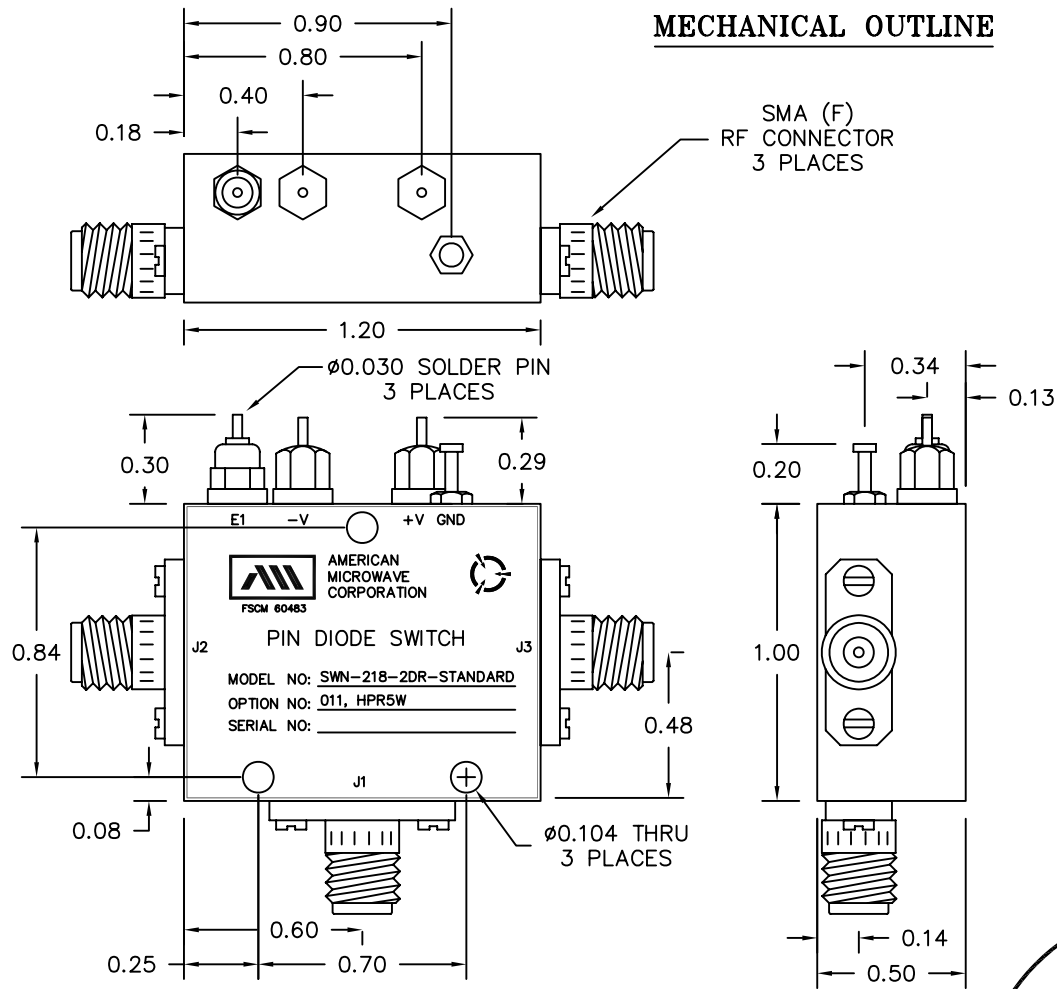
APPROVALS		DATE	TITLE			
DRAWN <i>PRB</i>		08/07/06	PRODUCT FEATURE SWN-218-2DR-STANDARD OPTIONS: 400M2, HPR5W			
REDRAWN <i>RA</i>		09/15/06	400 MHz TO 2 GHz, SINGLE POLE TWO THROW SWITCH			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	60483	100-4427-15	-
			SCALE	N:S		SHEET 1 OF 4

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MECHANICAL OUTLINE



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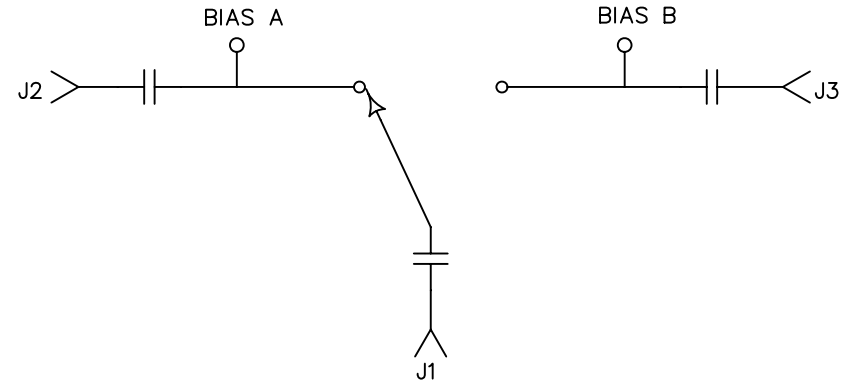
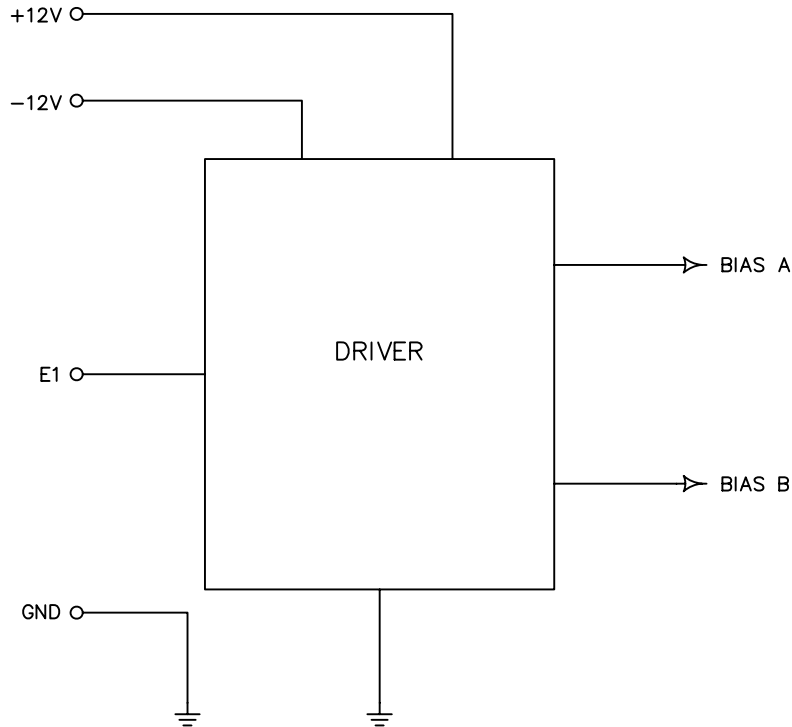
APPROVALS		DATE	TITLE		
DRAWN <i>PRB</i>		08/07/06	PRODUCT FEATURE SWN-218-2DR-STANDARD OPTIONS: 400M2, HPR5W		
REDRAWN <i>RA</i>		09/15/06	400 MHz TO 2 GHz, SINGLE POLE TWO THROW SWITCH	SIZE A	FSCM NO. 60483
ISSUED			DWG NO. 100-4427-15	REV. -	
SCALE N:S			SHEET 2 OF 4		

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FUNCTIONAL BLOCK DIAGRAM



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CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE			
DRAWN <i>PRB</i>		08/07/06	PRODUCT FEATURE SWN-218-2DR-STANDARD OPTIONS: 400M2, HPR5W			
REDRAWN <i>RA</i>		09/15/06	400 MHz TO 2 GHz, SINGLE POLE TWO THROW SWITCH	SIZE	FSCM NO.	DWG NO.
ISSUED			A	60483	100-4427-15	REV. -
			SCALE	N:S	SHEET	3 OF 4