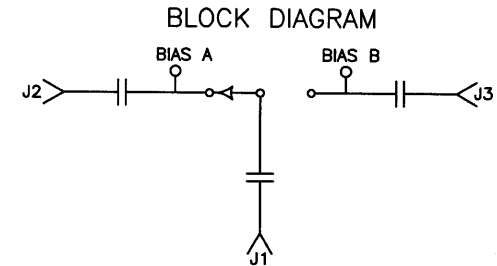
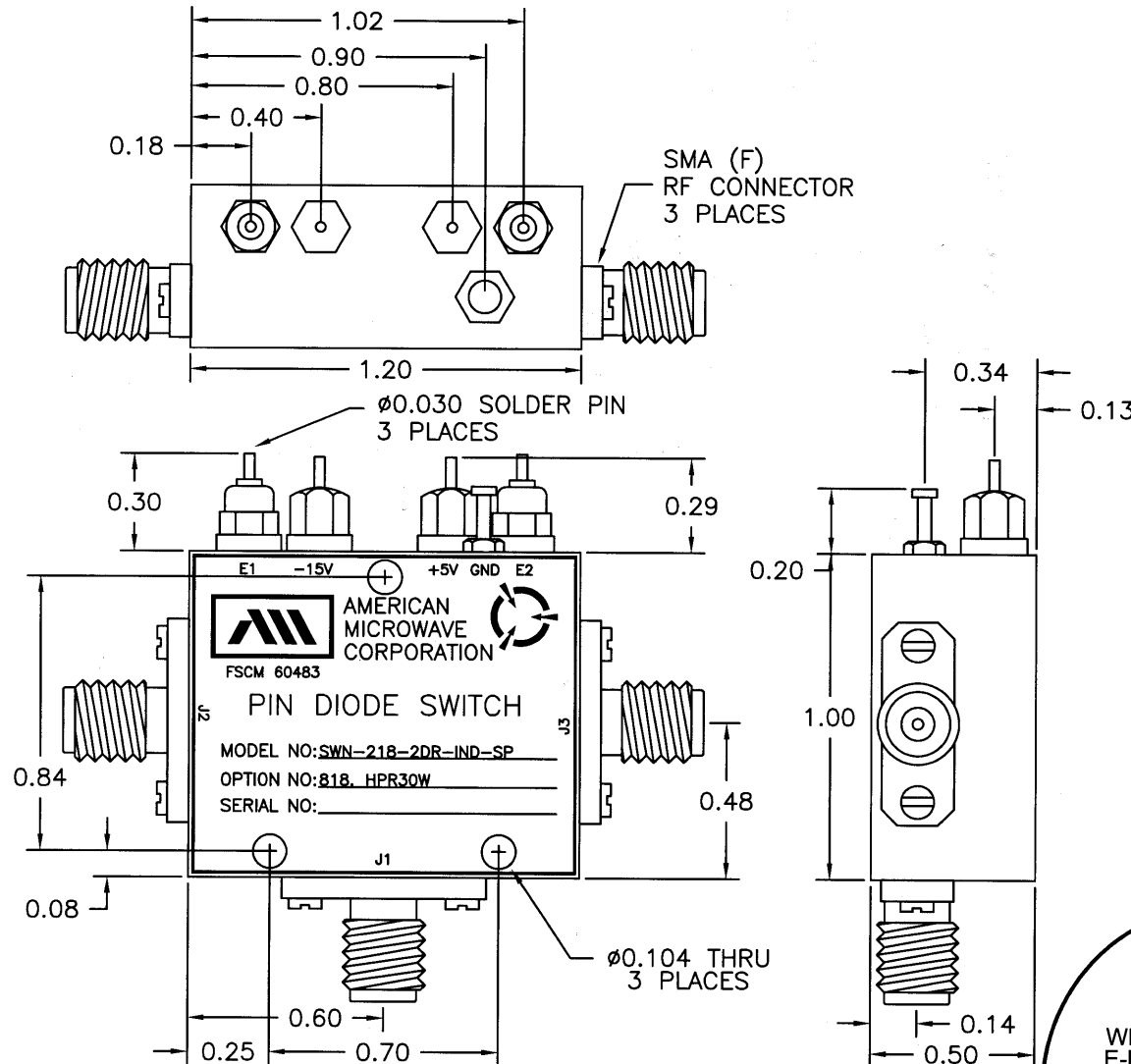


# DESCRIPTION

AMC MODEL SWN-218-2DR-IND-SP OPTION: 818, HPR30W IS AN INDEPENDENTLY CONTROLLED, HIGH POWER REFLECTIVE SINGLE POLE TWO THROW SWITCH DESIGNED TO OPERATE BETWEEN THE 8 TO 18 GHz FREQUENCY RANGE.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
		- ORIGINAL RELEASE JOB# 412311-3	2/23/05	

## 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  
 TEL: 301-662-4700 FAX: 301-662-4938  
 WEBSITE: [www.americanmicrowavecorp.com](http://www.americanmicrowavecorp.com)  
 E-MAIL: [sales@americanmicrowavecorp.com](mailto:sales@americanmicrowavecorp.com)  
 ISO 9001:2000 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>JDJ</i>		2/23/05	MECHANICAL OUTLINE SWN-218-2DR-IND-SP OPTION: 818, HPR30W 8 - 18 GHz, SINGLE POLE TWO THROW SWITCH		
CHECKED			SIZE A	FSCM NO. 60483	DWG NO. 100-7357
ISSUED					REV. -
SCALE N:S				SHEET 2 OF 3	

## DESCRIPTION

AMC MODEL SWN-218-2DR-IND-SP OPTION: 818, HPR30W IS AN INDEPENDENTLY CONTROLLED, HIGH POWER REFLECTIVE SINGLE POLE TWO THROW SWITCH DESIGNED TO OPERATE BETWEEN THE 8 TO 18 GHz FREQUENCY RANGE.

## SPECIFICATIONS

- FREQUENCY RANGE: 8 TO 18 GHz
- INSERTION LOSS: 1.5 dB MAXIMUM
- ISOLATION: 45 dB MINIMUM
- VSWR: 2.0:1
- RISE TIME: 20 nSec MAXIMUM
- FALL TIME: 20 nSec MAXIMUM
- DELAY ON: 50 nSec MAXIMUM
- DELAY OFF: 50 nSec MAXIMUM
- PORT TO PORT SWITCHING: 60 nSec MAXIMUM
- PULSE WIDTH: 1 uSec MAXIMUM
- MAXIMUM PRF: 2 MHz
- CONTROL: TTL LOW (0.2VDC NOMINAL) = INSERTION LOSS  
TTL HIGH (3.5VDC NOMINAL) = ISOLATION
- POWER SUPPLY: +5V @ 100 mA MAXIMUM  
-15V @ 75 mA MAXIMUM
- PEAK POWER (OPERATING): 30 WATTS MAXIMUM
- AVERAGE POWER (OPERATING): 10 WATTS MAXIMUM
- CONNECTORS:  
RF: SMA FEMALE  
CONTROL: SOLDER PIN
- SIZE: 1.20" (L) x 1.00" (W) x 0.50" (H)
- WEIGHT: 1.5 OUNCE TYPICAL

## OPTIONS:

- 818: 8 TO 18 GHz FREQUENCY RANGE
- HPR30W: HIGH POWER 30 WATTS HANDLING

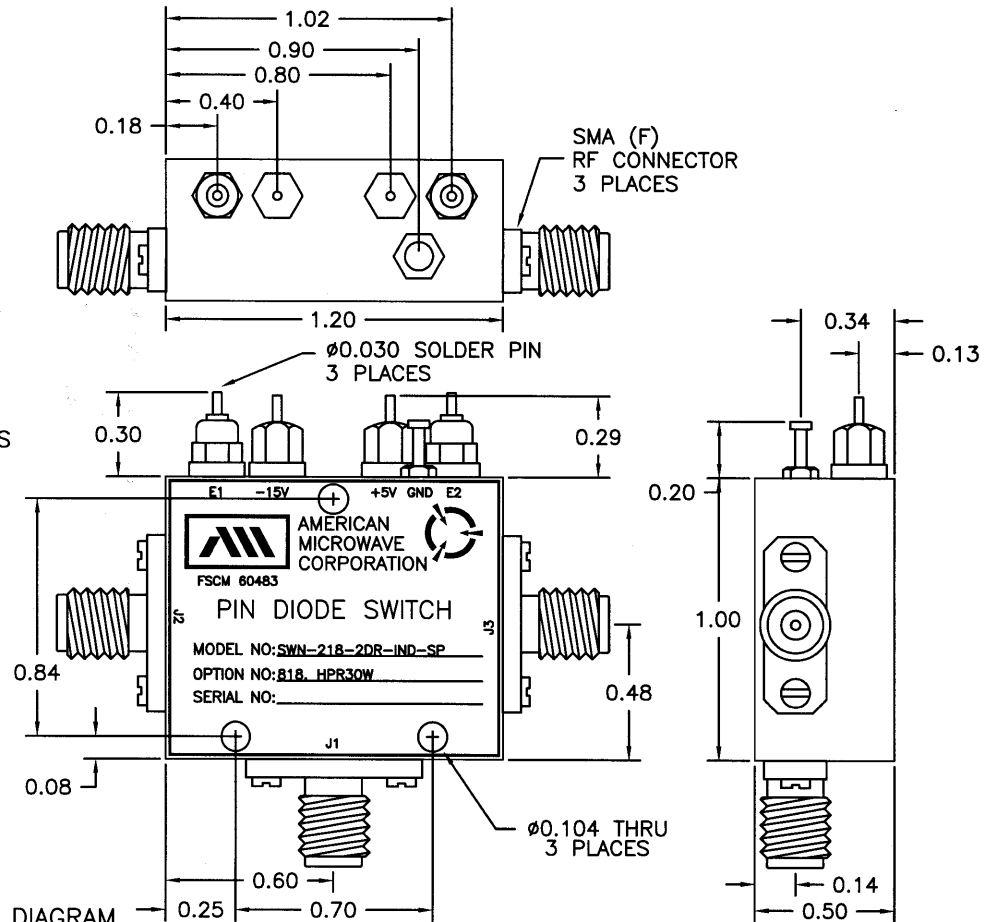
## ENVIRONMENTAL RATINGS:

- 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

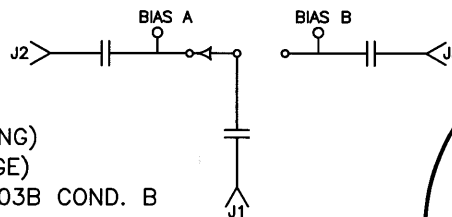
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

ZONE		REV.		DESCRIPTION		DATE	APPROVED
		-		ORIGINAL RELEASE	JOB# 412311-3	2/29/05	



BLOCK DIAGRAM



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APPROVALS		DATE	TITLE		
		2/29/05	PRODUCT FEATURE SWN-218-2DR-IND-SP OPTION: 818, HPR30W 8 - 18 GHz, SINGLE POLE TWO THROW SWITCH		
DRAWN	JDJ		SIZE	FSCM NO.	DWG NO.
CHECKED			A	60483	100-7357
ISSUED			SCALE	N:S	SHEET 1 OF 3