

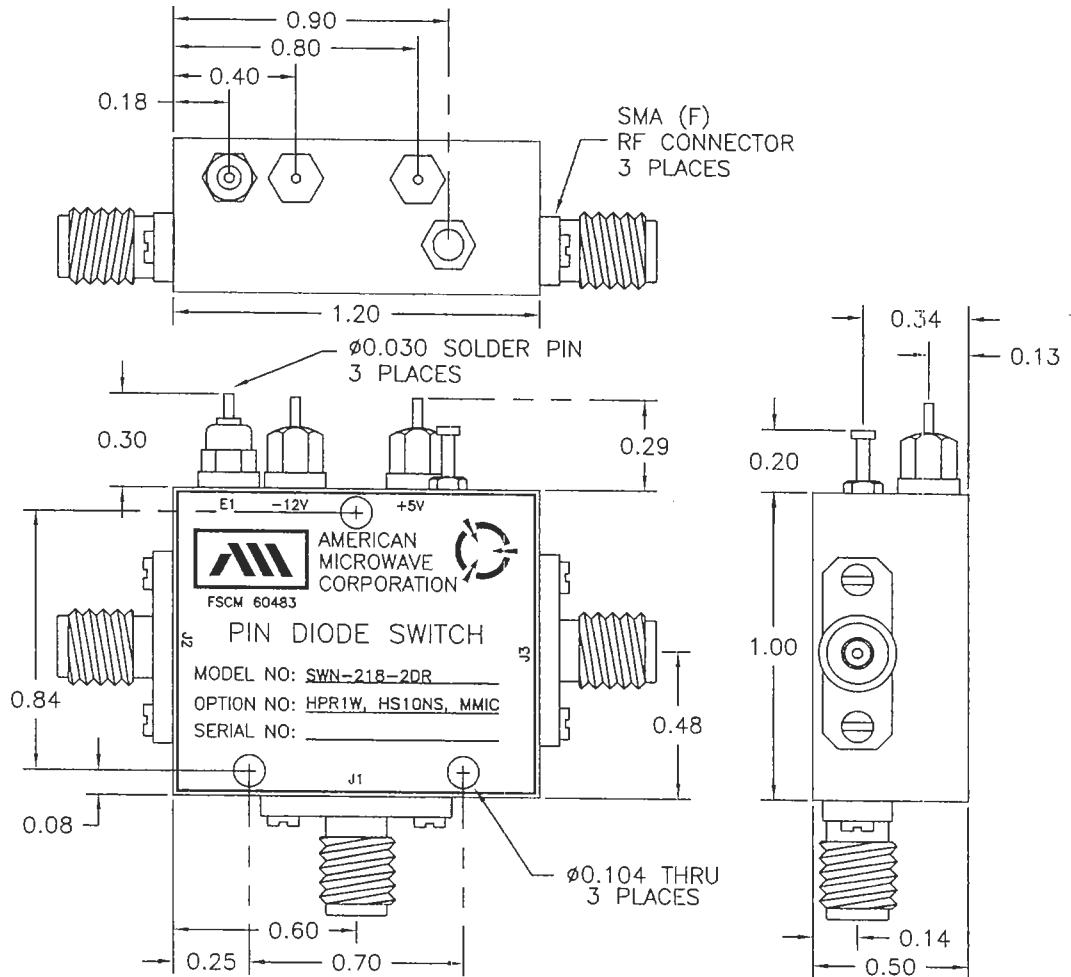
**DESCRIPTION:**

AMC MODEL SWN-218-2DR OPTION: HPR1W, HS10NS, MMIC IS A SINGLE POLE TWO THROW, REFLECTIVE SOLID STATE SWITCH MODULE WITH VERY LOW INSERTION LOSS, HIGH SPEED, HIGH POWER AND WITH INTEGRAL TTL DRIVER, DESIGNED FOR 0.4 TO 2.0 GHz OPERATION. THIS HIGH ISOLATION SWITCH USES A POWER SUPPLY OF ± 5 VDC.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
		ORIGINAL JOB# 310202-2	1/5/04	

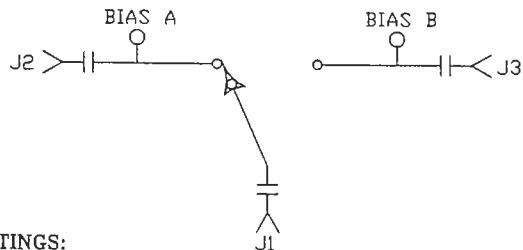
**SPECIFICATIONS:**

- FREQUENCY: ..... 0.4 GHz TO 2.0 GHz
- INSERTION LOSS: ..... 1.2 dB MAXIMUM.
- ISOLATION: ..... 50 dB MINIMUM.
- VSWR (ALL PORTS): ..... 1.5:1
- SWITCHING SPEED:  
(50% TTL TO 90% RF) ..... 10 nS MAXIMUM.
- CONTROL: ..... TTL SINGLE CONTROL
- POWER SUPPLY: ..... ±5 VDC @ 50 mA MAXIMUM
- RF INPUT POWER: ..... 30 dBm (1 WATT) MAXIMUM @ 1dB COMPRESSION
- CONNECTORS (RF): ..... SMA FEMALE, 3 PLACES
- CONNECTORS (POWER): ..... SOLDER PINS
- CONNECTORS (CONTROL): ..... SOLDER PINS
- LOGIC "0": ..... J1 TO J2 (FAIL SAFE ARM)
- LOGIC "1": ..... J1 TO J3
- SIZE: ..... 1.20" (L) x 1.00" (W) x 0.50" (H)
- WEIGHT: ..... 1.5 OUNCE TYPICAL



NOTE:  
DR=WITH DRIVER, REFLECTIVE

**BLOCK DIAGRAM**



**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

APPROVALS		DATE	AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND	
DRAWN	DPD	1/5/04	TITLE PRODUCT FEATURE SWN-218-2DR OPT:HPR1W, HS10NS, MMIC 0.4 TO 2.0 GHz, SINGLE POLE TWO THROW SWITCH	
REDRAWN	DDJ	8/24/04	SIZE	FSCM NO.
ISSUED	LA	8/31/04	A	60483
			DWG NO.	100-6881
			SCALE	N/S
			SHEET	1 OF 3