

**DESCRIPTION**

AMC MODEL SWN-218-2A OPTIONS 011, 218, 002 IS A SINGLE POLE TWO THROW, REFLECTIVE SWITCH MODULE WITH VERY LOW INSERTION LOSS, HIGH ISOLATION AND WITH INTEGRAL TTL DRIVER, DESIGNED FOR 2 TO 18 GHz OPERATION.

**SPECIFICATIONS**

- FREQUENCY RANGE: ..... 2 TO 18 GHz
- INSERTION LOSS: ..... 2-8 GHz @ 1.3 dB MAXIMUM  
8-12.4 GHz @ 2.0 dB MAXIMUM  
12.4 -18 GHz @ 3.5 dB MAXIMUM
- ISOLATION: ..... 2-4 GHz @ 75 dB MINIMUM  
4-8 GHz @ 70 dB MINIMUM  
8-12.4 GHz @ 65 dB MINIMUM  
12.4-18 GHz @ 55 dB MINIMUM
- VSWR: ..... 2-4 GHz @ 1.5:1  
4-18 GHz @ 2.0:1
- RISE TIME: ..... 50 nS MAXIMUM (10% RF TO 90% RF)
- FALL TIME: ..... 50 nS MAXIMUM (90% RF TO 10% RF)
- POWER INPUT: ..... (CW)+20 dBm (STANDARD), +10 dBm (HIGH SPEED)
- SURVIVAL POWER: ..... 1 WATT CW, 10 WATTS PEAK 1 uSec
- CONTROL: ..... CONTROL E1: TTL LOGIC "1" = J1-J2 ON, LOGIC "0" = J1-J2 OFF  
CONTROL E2: TTL LOGIC "1" = J1-J3 ON, LOGIC "0" = J1-J3 OFF
- POWER SUPPLY: ..... +5V @ 65 mA MAXIMUM  
-5V @ 50 mA 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:**

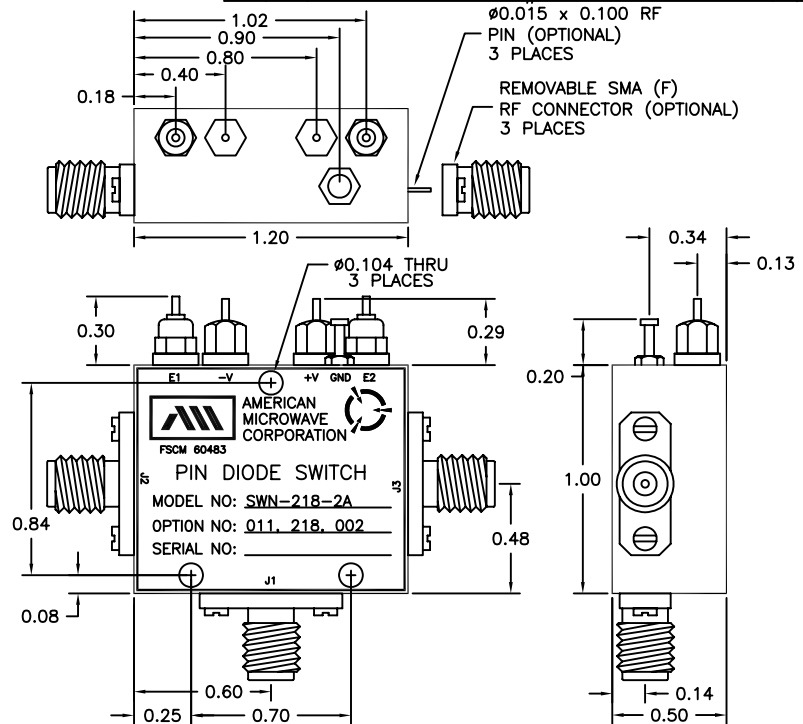
- 002: ..... INDEPENDENT CONTROL
- 011: ..... OFF ARM TERMINATION
- 218: ..... OPTIMIZED FOR 2 TO 18 GHz OPERATION

**ENVIRONMENTAL RATINGS:**

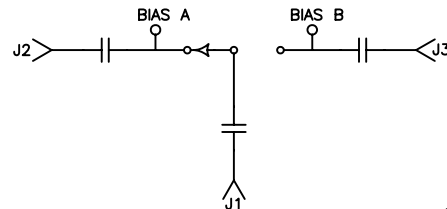
- TEMPERATURE: ..... -55°C TO +85°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- HUMIDITY: ..... MIL-STD-202F, METHOD 103B COND. B
- SHOCK: ..... MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: ..... MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: ..... MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: ..... MIL-STD-202F, METHOD 107D COND. A

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE JOB# 501003-1	1/29/05	
	A	SEE ECR# 08-079	10/31/08	



**BLOCK DIAGRAM**



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

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ISO 9001:2000 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>WLS</i>		1/29/05	PRODUCT FEATURE SWN-218-2A OPTIONS 011, 218, 002 (#SCP2150) 2 TO 18 GHz, SINGLE POLE TWO THROW SWITCH			
CHECKED			SIZE A	FSCM NO. 60483	DWG NO. 100-7320	REV. A
ISSUED			SCALE N:S		SHEET 1 OF 3	