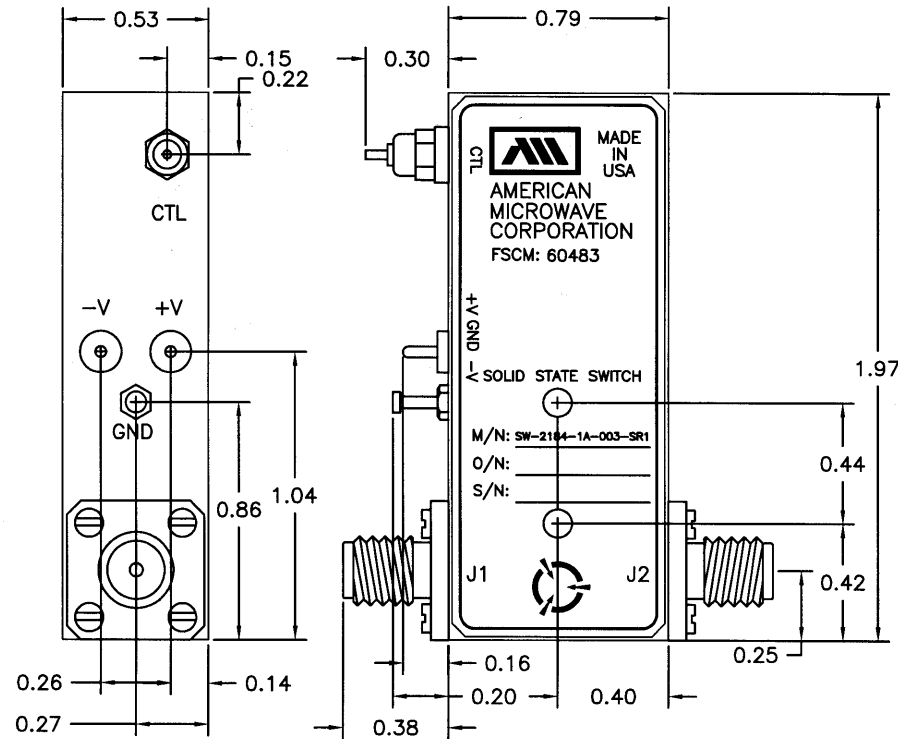


# DESCRIPTION

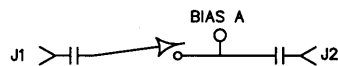
AMC MODEL SW-2184-1A-003-SR1 IS A REFLECTIVE SINGLE POLE SINGLE THROW SWITCH DESIGNED TO OPERATE OVER THE 2 TO 16 GHz FREQUENCY RANGE WITH LOW INSERTION LOSS AND HIGH ISOLATION.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE JOB# 502066	09/17/05	

# MECHANICAL OUTLINE



BLOCK DIAGRAM



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](http://www.americanmicrowavecorp.com)  
 E-MAIL: [sales@americanmicrowavecorp.com](mailto:sales@americanmicrowavecorp.com)  
 ISO 9001:2000 CERTIFIED



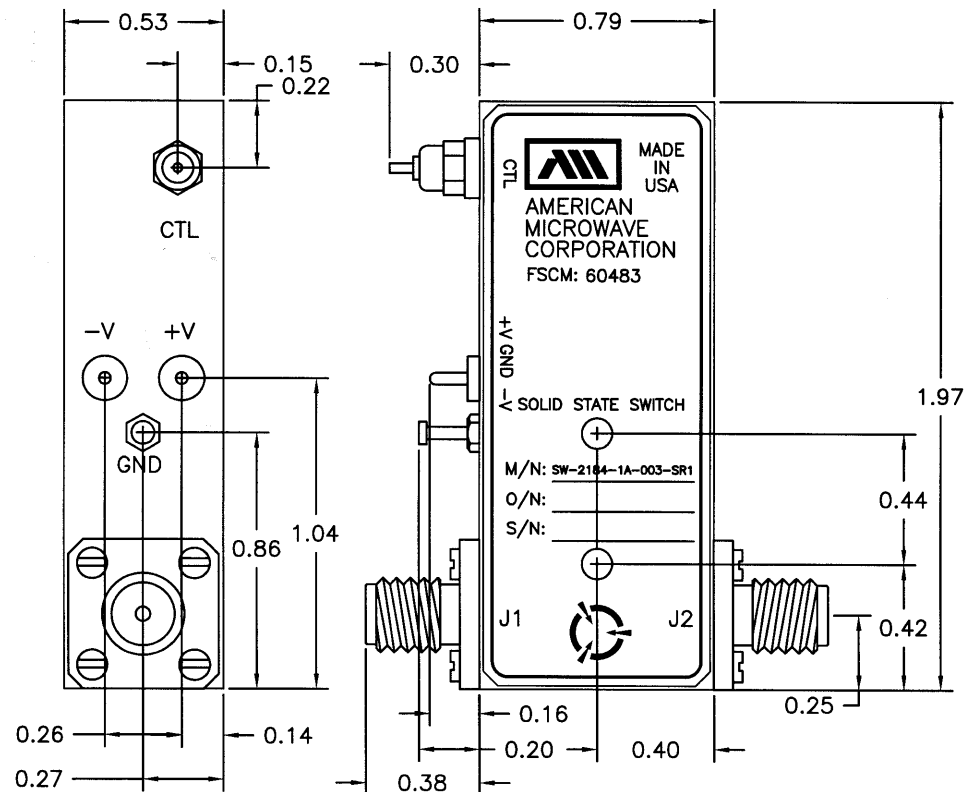
APPROVALS		DATE	TITLE		
DRAWN <i>WPL</i>		09/17/05	MECHANICAL OUTLINE		
CHECKED			SW-2184-1A-003-SR1		
ISSUED			2 - 16 GHz PIN DIODE SWITCH		
SIZE	FSCM NO.	DWG NO.	REV.		
A	60483	100-7384	-		
SCALE N:S			SHEET 2 OF 3		

## DESCRIPTION

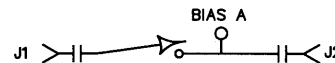
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## SPECIFICATIONS

- FREQUENCY RANGE: ..... 2 TO 16 GHz
- INSERTION LOSS: ..... 2.5 dB MAXIMUM
- ISOLATION: ..... 80 dB MINIMUM
- VSWR: ..... 2.0:1
- RISE TIME: ..... 10 nSEC MAXIMUM
- FALL TIME: ..... 10 nSEC MAXIMUM
- DELAY ON: ..... 30 nSEC MAXIMUM
- DELAY OFF: ..... 30 nSEC MAXIMUM
- RF POWER: ..... 2 WATT AVERAGE, 10 WATT PEAK
- CONTROL: ..... TTL LOGIC "0" = OFF  
TTL LOGIC "1" = ON
- POWER SUPPLY: ..... +5V @ 70 mA MAXIMUM  
-5V @ 40 mA MAXIMUM
- FREQUENCY FLATNESS: ..... 1 dB
- RF LEAKAGE: ..... -85 dB
- CONNECTORS:  
RF: ..... SMA FEMALE  
CONTROL: ..... SOLDER TYPE CONTROL
- SIZE: ..... 1.97" (L) x 0.79" (W) x 0.53" (H)
- WEIGHT: ..... 1.5 OUNCE TYPICAL



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

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X.XX ±0.020  
X.XXX ±0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
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APPROVALS		DATE	TITLE		
DRAWN <i>WJL</i>		03/17/05	PRODUCT FEATURE		
CHECKED			SW-2184-1A-003-SR1		
ISSUED			2 - 16 GHz PIN DIODE SWITCH		
SIZE	FSCM NO.	DWG NO.	REV.		
A	60483	100-7384	-		
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