

## DESCRIPTION

AMC MODEL SWN-2184-1A OPTIONS 45-068 AND 911 IS A SPST REFLECTIVE PIN-DIODE SWITCH/MODULATOR OPTIMIZED FOR A FREQUENCY RANGE OF 9.5 TO 10.5 GHZ WITH THE HIGH POWER OPTION.

## FEATURES

- 9.5 TO 10.5 GHZ
- LOW LOSS
- HIGH POWER
- HIGH ISOLATION
- TTL LOGIC COMPATIBLE
- MINIATURE SIZE

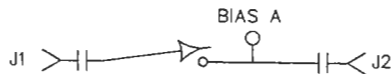
## SPECIFICATIONS

- FREQUENCY RANGE ..... 9.5 TO 10.5 GHZ
- INSERTION LOSS ..... 2.5dB MAXIMUM
- ISOLATION ..... 60dB MINIMUM
- VSWR ..... 2.0:1
- RISE TIME ..... 100nS MAXIMUM, 75nS TYPICAL
- RECOVERY TIME ..... 250nS MAXIMUM, 220nS TYPICAL
- VIDEO-TRANSIENTS ..... ≤ 2.0V PEAK TO PEAK, 300 MHZ BANDWIDTH  
 ≤ 2.0V PEAK TO PEAK, 20 MHZ BANDWIDTH
- RF INPUT POWER ..... 20 WATTS PEAK, 7 WATTS AVERAGE
- DC POWER (NO LOAD)
  - +V ..... +5VDC @ 100mA
  - V ..... -15VDC @ 50mA MAXIMUM
- SIZE ..... 1.0" x 1.0" x 0.5"
- WEIGHT ..... ≤ 1.0 OZ.

## OPTIONS

- 911 ..... 9.5 TO 10.5 GHz FREQUENCY RANGE
- 45-068 ..... HIGH POWER OPTION

### BLOCK DIAGRAM



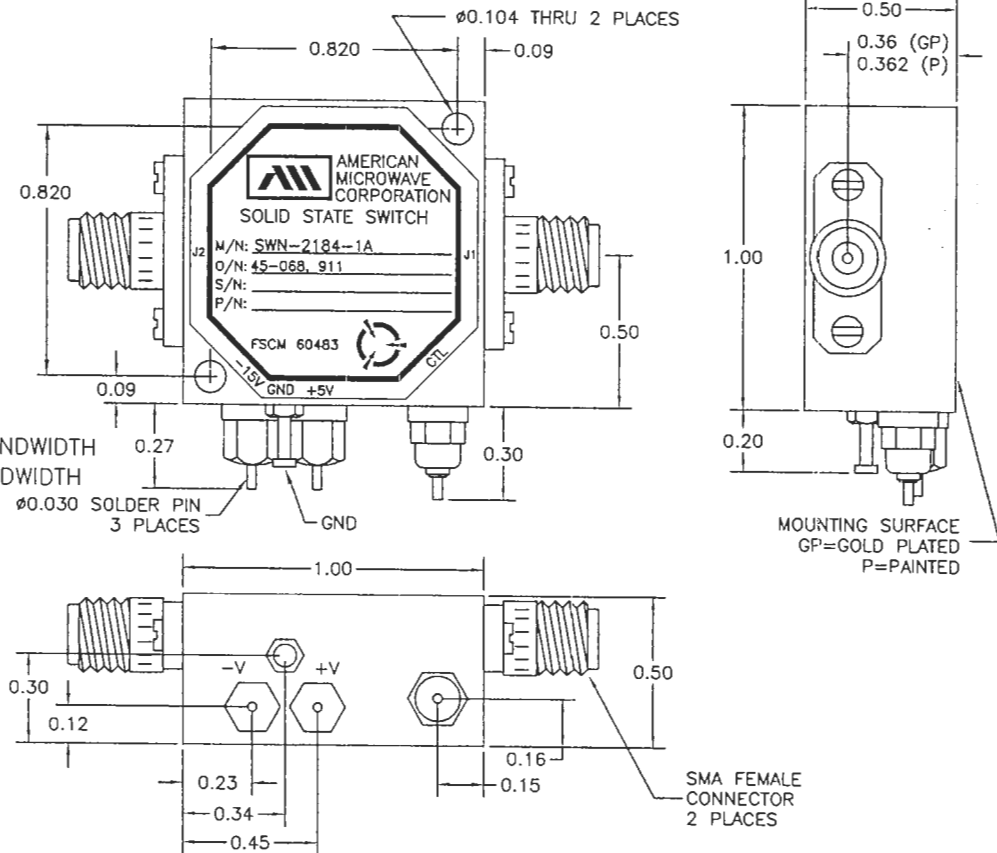
## ENVIRONMENTAL RATINGS

- 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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE JOB# 404079	5/5/04	



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 ISO 9001:2000 CERTIFIED



APPROVALS		DATE	TITLE			REV.
DRAWN	JKM	5/5/04	PRODUCT FEATURE SWN-2184-1A OPTION: 45-068, 911 9.5 TO 10.5 GHz SPST REFLECTIVE PIN-DIODE SWITCH			-
REDRAWN	JDJ	8/25/04	SIZE	FSCM NO.	DWG NO.	
ISSUED	PA	8/25/04	A	60483	100-6986	
			SCALE	N:S	SHEET	1 OF 3