

## DESCRIPTION

AMC MODEL SW-2181-2A-113 IS A REFLECTIVE BROAD BAND SPDT SWITCH MODULE WITH INTEGRAL TTL DRIVER, PACKAGED IN A MINIATURE HOUSING, CAPABLE OF HANDLING 2 WATTS OF CW POWER.

## SPECIFICATIONS

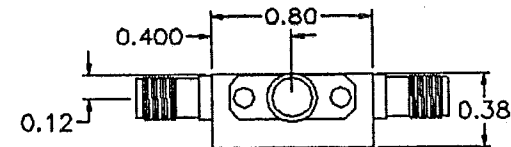
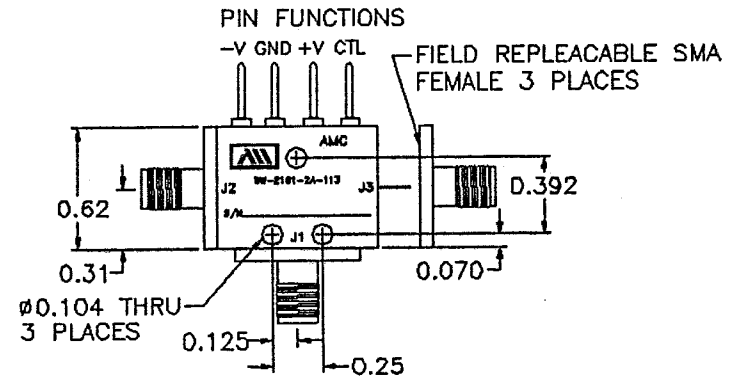
- FREQUENCY RANGE ..... 2-18 GHz MINIMUM
- INSERTION LOSS ..... 2- 4 GHz 1.2 dB MAXIMUM  
4- 8 GHz 1.6 dB MAXIMUM  
8-12 GHz 2.1 dB MAXIMUM  
12-18 GHz 2.5 dB MAXIMUM
- ISOLATION ..... 60 dB MINIMUM
- VSWR (ON) ..... 2 : 1 MAXIMUM
- SWITCHING TIME  
RISE (10% RF TO 90% RF) ..... 50 nS MAXIMUM  
FALL (90% RF TO 10% RF) ..... 50 nS MAXIMUM  
ON (50% TTL TO 90% RF) ..... 200 nS MAXIMUM  
OFF (50% TTL TO 10% RF) ..... 200 nS MAXIMUM
- CONTROL ..... TTL COMPATIBLE, UNITY LOAD  
1 DEPENDANT CONTROL (TOGGLE)  
LOGIC "0" J1-J2 PATH ON  
LOGIC "1" J1-J3 PATH ON
- RF POWER RATINGS ..... 2 WATTS CW, MAXIMUM
- POWER SUPPLY ..... + 5VDC  $\pm 5\%$  @ 65 mA MAXIMUM  
-15VDC  $\pm 5\%$  @ 65 mA MAXIMUM
- CONNECTORS  
RF INPUT/OUTPUT ..... FIELD REPLACEABLE SMA (FEMALE)  
POWER ..... SOLDER PIN  
CONTROL ..... SOLDER PIN
- SIZE ..... 0.80" x 0.62" x 0.38"

## AVAILABLE OPTIONS

- A01 ..... 50 $\Omega$  CONTROL IMPEDANCE
- A02 ..... 100 $\Omega$  CONTROL IMPEDANCE
- A03 ..... INVERSE CONTROL LOGIC (LOGIC "0" ISOLATION)
- A04 ..... INPUT/OUTPUT VIDEO FILTER  
(0.5 dB EXCESS LOSS 2-18 GHz)
- A08 ..... TWO INDIVIDUAL CONTROLS
- A14 ..... J1 SMA MALE, J2 AND J3 SMA FEMALE
- A15 ..... J1 SMA FEMALE, J2 AND J3 SMA MALE
- A16 ..... -5 VDC SUPPLY
- A17 ..... +15 VDC SUPPLY
- A18 .....  $\pm 12$  VDC SUPPLY

REVISIONS				DATE	APPROVED
ZONE	REV.	DESCRIPTION			
	A	ORIGINAL RELEASE, JOB # 284DE		11/17/92	<i>[Signature]</i>

## MECHANICAL OUTLINE



### NOTES:

- 1) DIMENSIONS ARE IN INCHES
- 2) TOLERANCES: X.XX  $\pm 0.020$   
X.XXX  $\pm 0.010$
- 3) WEIGHT: APPROX. 1.0 OZ

## ENVIRONMENTAL RATINGS

- TEMPERATURE ..... -55°C TO +95°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



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APPROVALS	DATE
DRAWN <i>W.S.P.</i>	11/17/92
CHECKED <i>[Signature]</i>	11/22/92

### PRODUCT FEATURE

SW-2181-2A-113

2-18 GHz, REFLECTIVE, 2 WATT SPDT SWITCH

SIZE A SHEET 1 OF 2 DWG. # 100-2757