

# DESCRIPTION

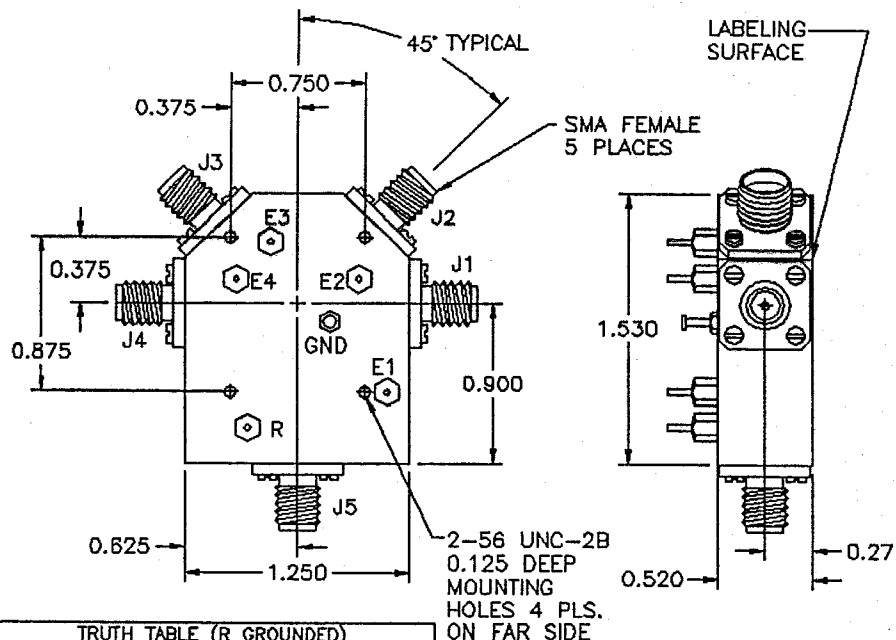
AMC MODEL SW-218-4S IS A REFLECTIVE SP4T BAND-SWITCH MODULE WITHOUT DRIVER CIRCUITRY.

REVISIONS				DATE	APPROVED
ZONE	REV.	DESCRIPTION			
A		ORIGINAL RELEASE, AMC DWG # 200-370		11/22/92	<i>[Signature]</i>

# SPECIFICATIONS

- **FREQUENCY**
  - J5-J1 ..... 2-4 GHz MINIMUM
  - J5-J2 ..... 4-8 GHz MINIMUM
  - J5-J4 ..... 8-12.4 GHz MINIMUM
  - J5-J3 ..... 12.4-18 GHz MINIMUM
- **INSERTION LOSS**
  - J5-J1 ..... 1.1 dB MAXIMUM
  - J5-J2 ..... 1.2 dB MAXIMUM
  - J5-J4 ..... 1.8 dB MAXIMUM
  - J5-J3 ..... 2.3 dB MAXIMUM
- **ISOLATION**
  - J5-J1 ..... 45 dB MINIMUM
  - J5-J2 ..... 40 dB MINIMUM
  - J5-J4 ..... 35 dB MINIMUM
  - J5-J3 ..... 30 dB MINIMUM
- **VSWR (ON)**
  - J5-J1 ..... 1.8:1 MAXIMUM
  - J5-J2 ..... 2.0:1 MAXIMUM
  - J5-J4 ..... 2.2:1 MAXIMUM
  - J5-J3 ..... 2.5:1 MAXIMUM
- **RF POWER RATINGS** ..... +27 dBm CW MAXIMUM
- **SWITCHING TIME**
  - RISE (10% RF TO 90% RF) ..... 300 ns MAXIMUM
  - FALL (90% RF TO 10% RF) ..... 300 ns MAXIMUM
  - ON (50% TTL TO 90% RF) ..... 500 ns MAXIMUM
  - OFF (50% TTL TO 10% RF) ..... 500 ns MAXIMUM
- **CONTROLS** ..... CURRENT CONTROLLED  
4 INDIVIDUAL CONTROLS  
+2D mA = ISOLATION  
-2D mA = INSERTION LOSS  
(SEE TRUTH TABLE)
- **CONNECTORS**
  - RF INPUT/OUTPUT ..... SMA (FEMALE)
  - CONTROL ..... SOLDER PIN
- **SIZE** ..... 1.25" x 1.53" x 0.52"

# MECHANICAL OUTLINE



TRUTH TABLE (R GROUNDED)				
E4	E3	E2	E1	RF PATH
+20mA	+20mA	+20mA	-20mA	J5-J1
+20mA	+20mA	-20mA	+20mA	J5-J2
+20mA	-20mA	+20mA	+20mA	J5-J3
-20mA	+20mA	+20mA	+20mA	J5-J4

- NOTES:
- 1) DIMENSIONS ARE IN INCHES
  - 2) TOLERANCES: X.XX ±0.020  
X.XXX ±0.010
  - 3) WEIGHT: APPROX. 2.5 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

# AVAILABLE OPTIONS

- A13 ..... J5 SMA MALE, J1-J4 SMA FEMALE
- A14 ..... J5 SMA FEMALE, J1-J4 SMA MALE
- A15 ..... 60 dB ISOLATION (CONSULT FACTORY)



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APPROVALS	DATE
DRAWN <i>[Signature]</i>	11/22/92
CHECKED <i>[Signature]</i>	11/22/92

# PRODUCT FEATURE

# SW-218-4S

2-18 GHz, REFLECTIVE SP4T BAND-SWITCH MODULE