

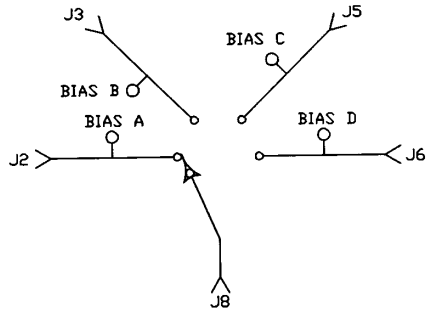
**DESCRIPTION:**

AMC MODEL NUMBER SWN-1140-4DT-SP OPTION 300M27 IS A SINGLE POLE FOUR THROW, ABSORPTIVE PIN DIODE SWITCH. DESIGNED FOR THE 0.3 GHz TO 26.5 GHz FREQUENCY BAND WITH LOW LOSS, +27 dBm RF POWER AND WITH INTEGRAL TTL DRIVER.

**SPECIFICATIONS:**

- FREQUENCY: 0.3 GHz TO 26.5 GHz
- INSERTION LOSS: 0.3 GHz TO 18 GHz: 3.00 dB MAXIMUM  
18 GHz TO 26.5 GHz: 4.5 dB MAXIMUM
- ISOLATION: 0.3 GHz TO 2 GHz: 60 dB MINIMUM  
2 GHz TO 4 GHz: 80 dB MINIMUM  
4 GHz TO 26.5 GHz: 60 dB MINIMUM
- VSWR: ABSORPTIVE IN/OUT: 2.0:1  
ABSORPTIVE OUT/OFF: 2.0:1
- SPEED: DELAY ON: 75ns TYPICAL, 100ns MAXIMUM  
DELAY OFF: 75ns TYPICAL, 100ns MAXIMUM
- POWER INPUT: (CW)+27dBm (STANDARD), +10 dBm (HIGH SPEED)
- SURVIVAL POWER: 1 WATT CW, 10 WATTS PEAK 1 usec
- CONTROL: TTL LOGIC "0"=ON "1"=OFF
- POWER SUPPLY: +5V @ 200 mA MAXIMUM  
-5V @ 100 mA MAXIMUM

BLOCK DIAGRAM



**ENVIRONMENTAL RATINGS:**

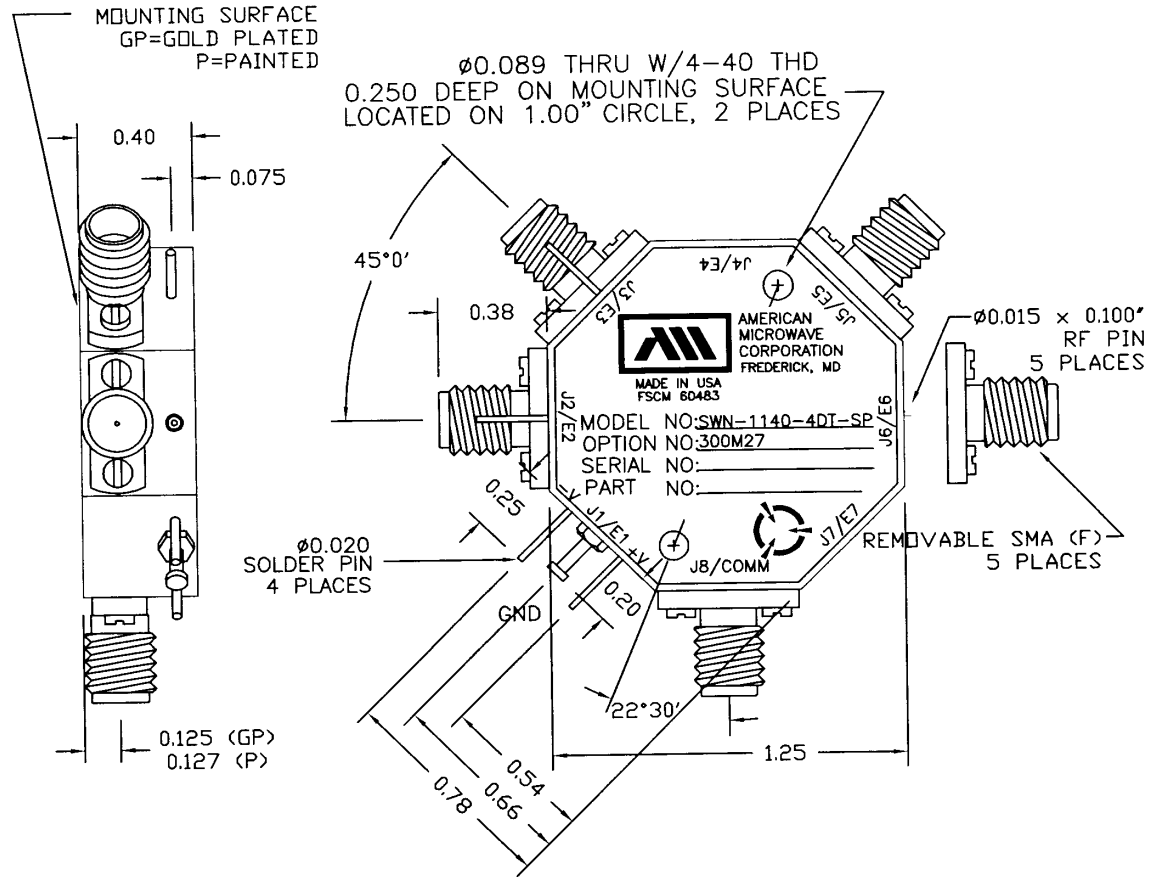
- TEMPERATURE: -55°C TO +85°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND.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

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

ZONE		REV.	DESCRIPTION	DATE	APPROVED
			ORIGINAL RELEASE, JOB# 004078E	11/12/03	

**MECHANICAL OUTLINE**



**CONFIDENTIAL AND PROPRIETARY**

CONTRACT NO.		AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND			
APPROVALS	DATE	TITLE			
DRAWN <i>WHL</i>	11/12/03	PRODUCT FEATURE SWN-1140-4DT-SP OPTION 300M27 RADIAL SOLID STATE SWITCH			
CHECKED		SIZE	FSCM NO.	DWG NO.	REV.
ISSUED		A	60483	100-6847	-
		SCALE	N/S		SHEET 1 of 3