

**DESCRIPTION:**

AMC MODEL MSN-2DT-05-STANDARD OPTION 70M07 IS A SINGLE POLE TWO THROW, ABSORPTIVE/NON-REFLECTIVE SWITCH MODULE WITH VERY LOW INSERTION LOSS, HIGH ISOLATION AND WITH INTEGRAL TTL DRIVER, DESIGNED FOR LOW VIDEO TRANSIENTS AND LOW HARMONIC DISTORTION OVER 70 TO 570 MHz BANDWIDTH.

**SPECIFICATIONS:**

- FREQUENCY: .....70 MHz TO 570 MHz
- INSERTION LOSS: .....1.5 dB MAXIMUM
- ISOLATION (ANY PORT): .....60 dB MINIMUM
- VSWR (ANY PORT, ANY STATE): .....1.5:1
- SWITCHING SPEED: .....<30 ns  
(50% TTL TO 10%/90% RF)
- RISE/FALL TIME: .....<10 ns  
(10% TO 90% RF)  
(90% TO 10% RF)
- MAXIMUM TOGGLE RATE: .....>20 MHz  
(50% DC):
- RF CONNECTORS: .....SMA FEMALE
- DC POWER SUPPLY: .....+5V ±10% Ⓢ 100 mA MAXIMUM  
.....-5V ±10% Ⓢ 100 mA MAXIMUM
- CONTROL: .....TTL LOGIC "0"=ON J3-J1 "1"=ON J3-J2
- CONTROL INTERFACE: .....DC SOLDER PINS
- HARMONIC DISTORTION: .....≤ 70dB Ⓢ +10 dBm I/P
- FLATNESS ACROSS BAND: .....±0.5dB  
(ON STATE)
- VIDEO LEAKAGE: .....100 mV PEAK TO PEAK, 500 MHz BANDWIDTH (-60 dBm TO -65 dBm LEAKAGE POWER OR ENERGY IN THE BAND OF INTEREST)
- 1 dB COMPRESSION POINT: .....+20 dBm
- 2 TONE 3RD ORDER INTERCEPT POINT, POUT OdBm: .....+35 dBm
- 2 TONE 2RD ORDER INTERCEPT POINT, POUT OdBm: .....+55 dBm
- 0.1 dB PASS BAND: .....70 MHz TO 570 MHz
- WEIGHT: .....1.5 OUNCES TYPICAL
- SIZE: .....1.00 (L) X 1.00 (W) X 0.40 (H)

**ENVIRONMENTAL RATINGS:**

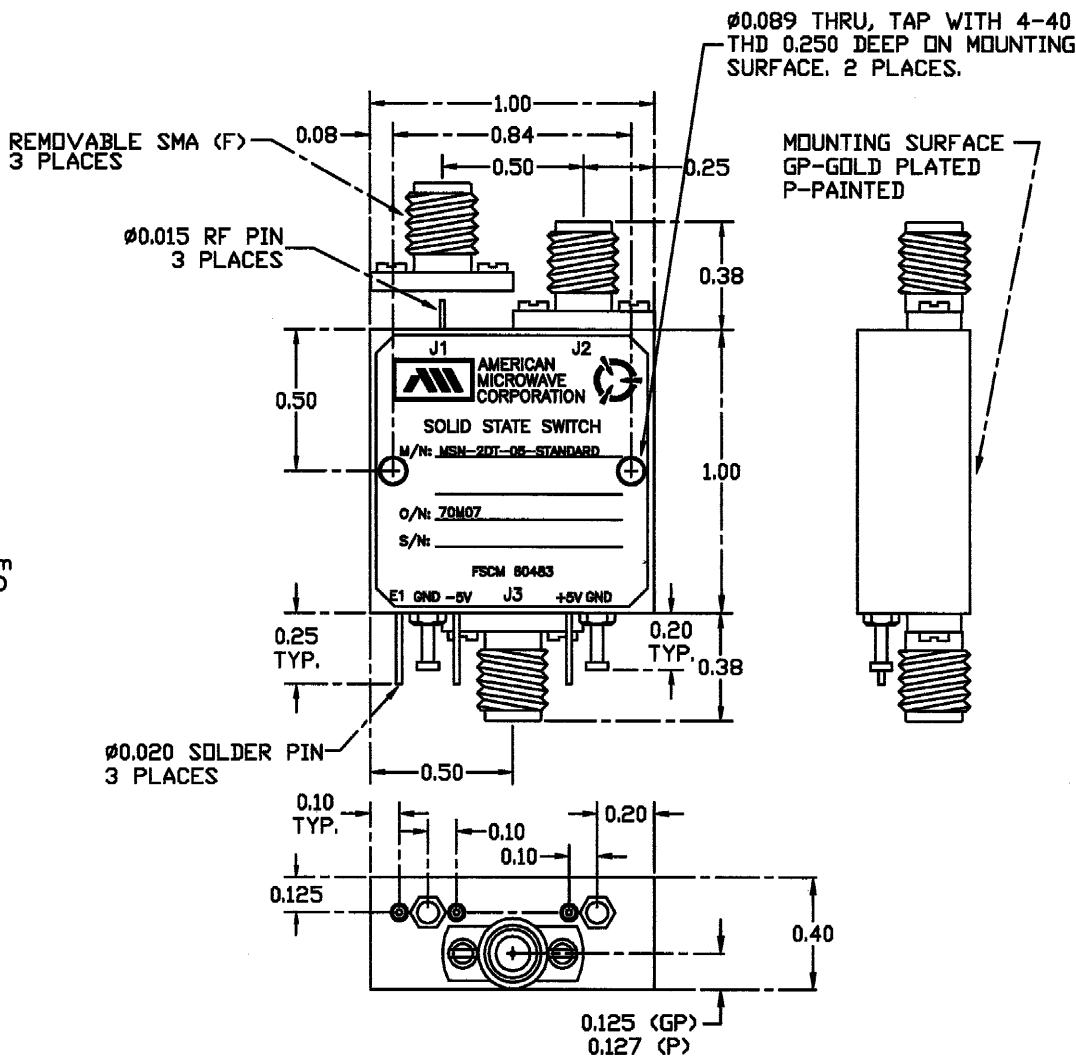
- TEMPERATURE: .....-10°C TO +55°C (OPERATING)  
.....-40°C TO +71°C (STORAGE)
- HUMIDITY: .....95% OVER TEMPERATURE
- SHOCK: .....MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: .....MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: .....MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: .....MIL-STD-202F, 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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	-	ORIGINAL RELEASE	8/12/99	



M/N = MANUFACTURER PART NUMBER  
O/N = OPTION NUMBER  
S/N = SERIAL NUMBER

NOTE:  
DT=WITH DRIVER, NON-REFLECTIVE/ABSORPTIVE

PART NO.		AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND		
APPROVALS	DATE	TITLE		
DRAWN <i>WSP</i>	8/12/99	OUTLINE DRAWING MSN-2DT-05-STANDARD OPTION 70M07 SOLID STATE SWITCH		
CHECKED		SIZE	FSCM NO.	DWG NO.
ISSUED		A	60483	100-3922-7
		SCALE	SHEET 1 of 1	