DESCRIPTION:

AMC MODEL MSN-2DT-05-STANDARD OPTION 18, 12X, LVT 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 1.0 TO 8.2 GHz BANDWIDTH.

SPECIFICATIONS:

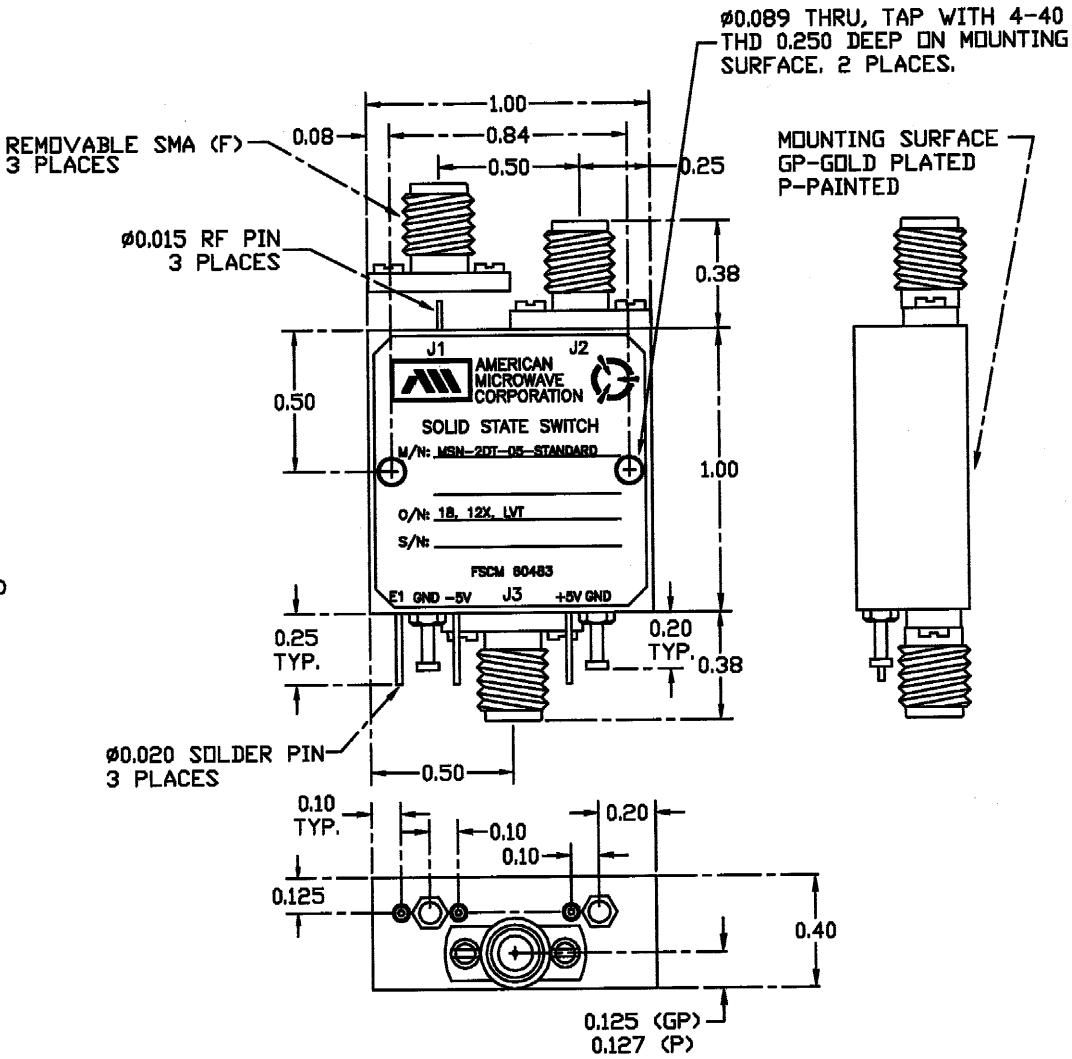
- FREQUENCY: ..... 1.0 GHz TO 8.2 GHz
- INSERTION LOSS: ..... 2.5 dB MAXIMUM
- ISOLATION (ANY PORT): ..... 60 dB MINIMUM
- VSWR (ANY PORT, ANY STATE): 1.8:1
- SWITCHING SPEED: ..... <30 ns
  (50% TTL TO 10%/90% RF)
- RISE/FALL TIME: ..... <10 ns
  (10% TO 90% RF)
  (90% TO 10% RF)
- MAXIMUM TOGGLE RATE: ..... >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: ..... ±1.0dB, 0.75dB TYPICAL
  (ON STATE)
- VIDEO LEAKAGE: ..... 100 mV PEAK TO PEAK, 20 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 0dBm: ..... +35 dBm
- 2 TONE 2RD ORDER INTERCEPT POINT, POUT 0dBm: ..... +55 dBm
- 0.1 dB PASS BAND: ..... 1.0 GHz TO 8.2 GHz
- 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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE	8/10/99	



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

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

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

PART NO.		AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND		
APPROVALS	DATE	TITLE: OUTLINE DRAWING MSN-2DT-05-STANDARD OPTION 18, 12X, LVT SOLID STATE SWITCH		
DRAWN WSP	8/10/99	SIZE: A	FSCM NO.: 60483	DWG NO.: 100-3922-6 REV.: -
CHECKED		SCALE:		SHEET 1 of 1
ISSUED				