

**DESCRIPTION:**

AMC MODEL MSN-2DT-05-STANDARD OPTION 818, 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 8 TO 18.2 GHz BANDWIDTH.

**SPECIFICATIONS:**

- FREQUENCY:..... 8 GHz TO 18.2 GHz
- INSERTION LOSS:..... 3.0 dB MAXIMUM
- ISOLATION (ANY PORT):..... 60 dB MINIMUM
- VSWR (ANY PORT, ANY STATE):..... 2.0:1
- 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:..... 8 GHz TO 18.2 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

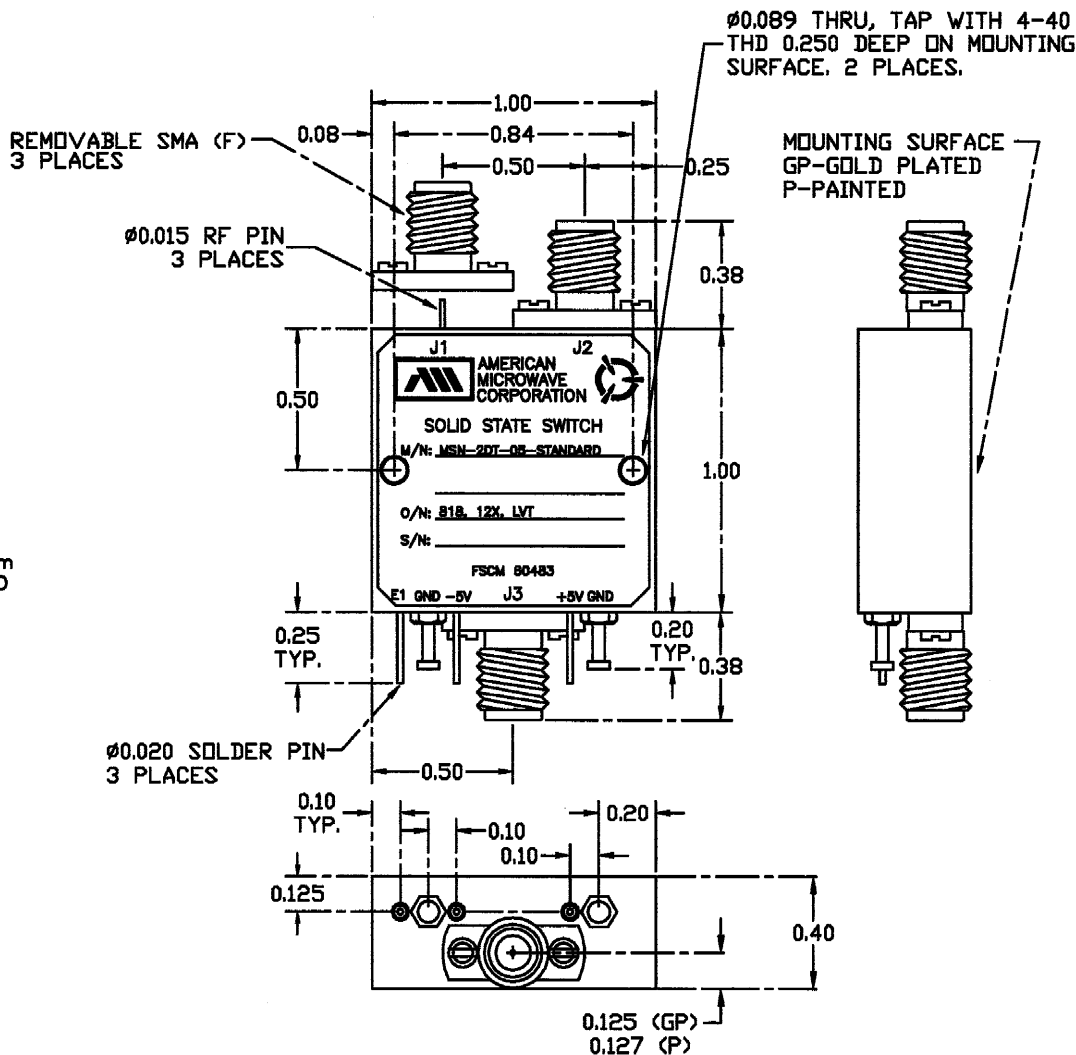
NOTE THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES

TOLERANCES:

X.XX ±0.020  
X.XXX ±0.010

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
-	-	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 818, 12X, LVT SOLID STATE SWITCH	
CHECKED		SIZE	FSCM NO.
ISSUED		A	60483
		DWG NO.	100-3922-8
		REV.	-
		SCALE	SHEET 1 of 1