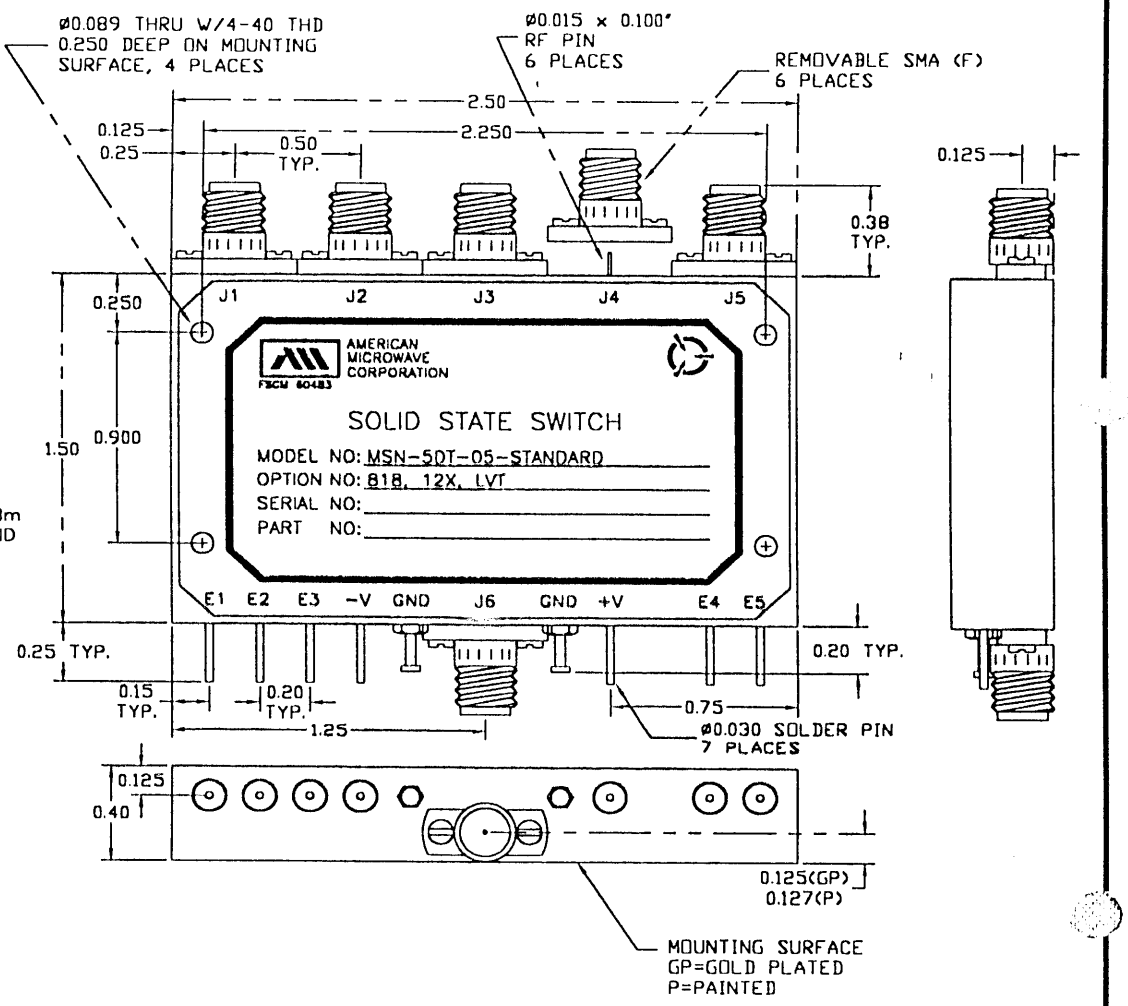
DESCRIPTION:

AMC MODEL MSN-50T-05-STANDARD OPTION 818, 12X, LVT IS A SINGLE POLE FIVE 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.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	–	ORIGINAL RELEASE	8/19/99	

SPECIFICATIONS:

- FREQUENCY: ..... 8 GHz TO 18.2 GHz
- INSERTION LOSS: ..... 4.0 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% @ 250 mA MAXIMUM
  −5V ±10% @ 100 mA MAXIMUM
- CONTROL: ..... TTL LOGIC "0"=ON "1"=OFF
- 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 0dBm: ..... +35 dBm
- 2 TONE 2RD ORDER INTERCEPT POINT, POUT 0dBm: ..... +55 dBm
- 0.1 dB PASS BAND: ..... 8 GHz TO 18.2 GHz
- WEIGHT: ..... 3.5 OUNCES TYPICAL
- SIZE: ..... 2.50 (L) X 1.50 (W) X 0.40 (H)



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

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

PART NO.		
APPROVALS	DATE	
DRAWN WSP	8/19/99	
CHECKED	9/10/99	
ISSUED		

AMERICAN MICROWAVE CORPORATION
FREDERICK, MARYLAND

TITLE: OUTLINE DRAWING
MSN-5DT-05-STANDARD
OPTION 818, 12X, LVT
SOLID STATE SWITCH

SIZE	FSCM NO.	DWG NO.	REV.
A	60483	100-4166-6	–
SCALE N/S		SHEET 1 of 1	