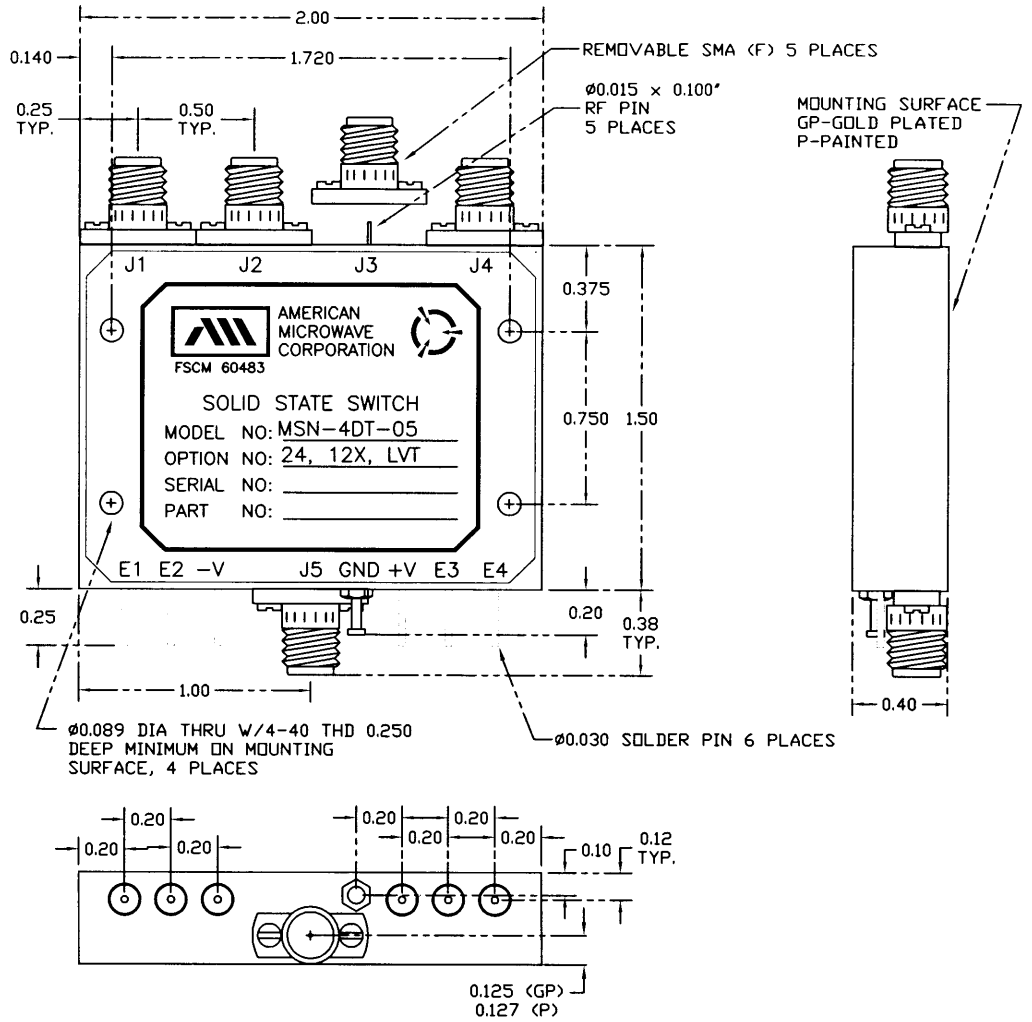
DESCRIPTION:

AMC MODEL MSN-4DT-05-STANDARD OPTION 24, 12X, LVT IS A SINGLE POLE FOUR 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 2500 TO 3250 MHz BANDWIDTH.

SPECIFICATIONS:

- FREQUENCY: ..... 2500 MHz TO 3250 MHz
- INSERTION LOSS: ..... 1.5 dB MAXIMUM
- ISOLATION (ANY PORT): ..... 80 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% @ 200 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: ..... 2500 MHz TO 3250 MHz
- WEIGHT: ..... 3.0 OUNCES TYPICAL
- SIZE: ..... 2.00 (L) X 1.50 (W) X 0.40 (H)

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	–	ORIGINAL RELEASE	8/17/99	



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.		AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND			
APPROVALS	DATE	TITLE: OUTLINE DRAWING MSN-4DT-05-STANDARD OPTION 24, 12X, LVT SOLID STATE SWITCH			
DRAWN WSP	8/17/99	SIZE: A	FSCM NO.: 60483	DWG NO.: 100-4007-5	REV.: –
CHECKED		SCALE:		SHEET: 1 of 1	
ISSUED					