

DESCRIPTION:

AMC MODEL MSN-4DT-05-STANDARD OPTION 18, 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 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% 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:±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 OdBm:+35 dBm
- 2 TONE 2RD ORDER INTERCEPT POINT, POUT OdBm:+55 dBm
- 0.1 dB PASS BAND:1.0 GHz TO 8.2 GHz
- WEIGHT:3.0 OUNCES TYPICAL
- SIZE:2.00 (L) X 1.50 (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

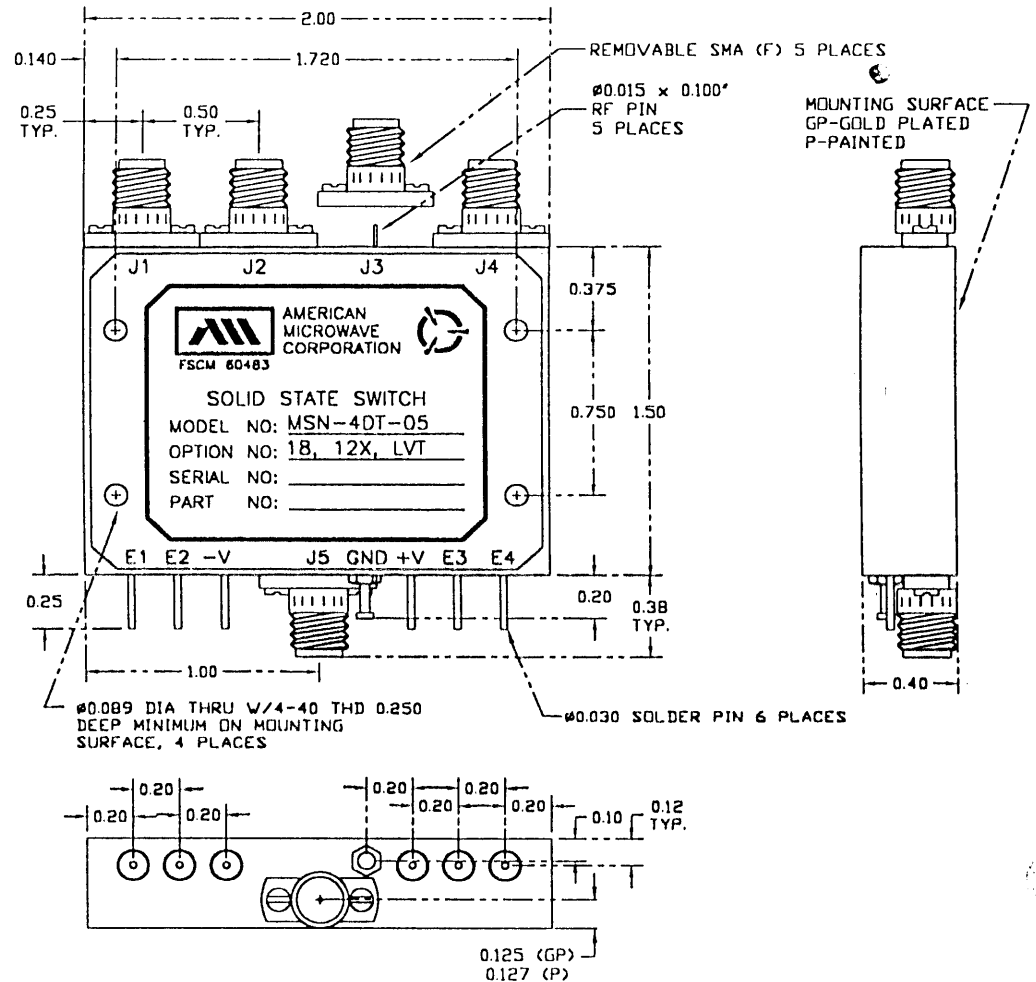
ALL DIMENSIONS ARE IN INCHES

TOLERANCES:

X.XX ±0.020

X.XXX ±0.010

ZONE		REV.	DESCRIPTION	DATE	APPROVED
		-	ORIGINAL RELEASE	8/17/99	JM



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

PART NO.		AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND			
APPROVALS	DATE	TITLE			
DRAWN WJP	8/17/99	OUTLINE DRAWING MSN-4DT-05-STANDARD OPTION 18, 12X, LVT SOLID STATE SWITCH			
CHECKED LA	7/1/99	SIZE	FSCM NO.	DWG NO.	REV.
ISSUED		A	60483	100-4007-6	-
SCALE					SHEET 1 of 1