

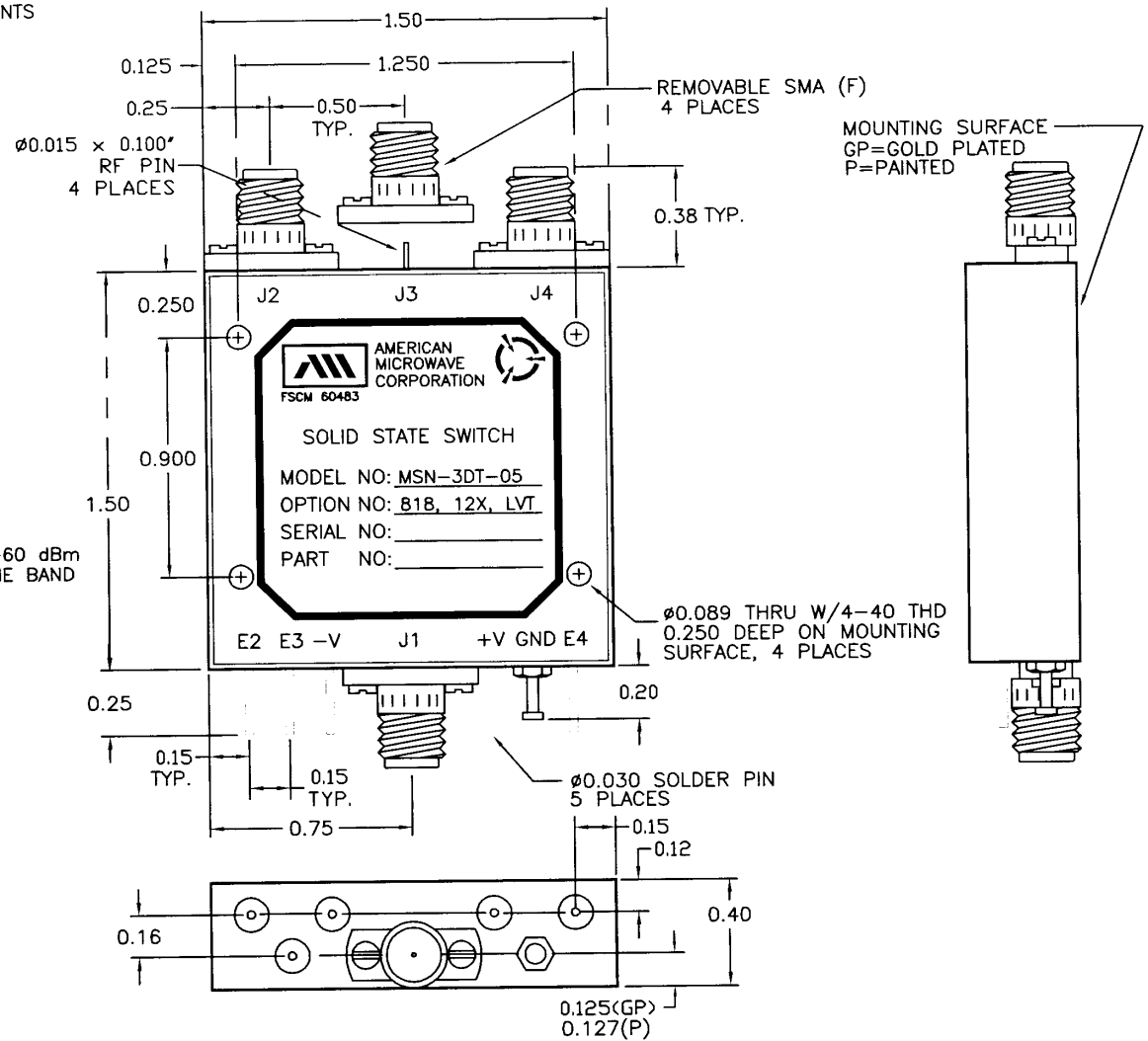
**DESCRIPTION:**

AMC MODEL MSN-3DT-05-STANDARD OPTION 818, 12X, LVT IS A SINGLE POLE THREE 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.

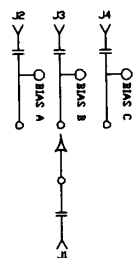
**SPECIFICATIONS:**

- FREQUENCY: 8 GHz TO 18.2 GHz
- INSERTION LOSS: 3.75 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% @ 150 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 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: 2.5 OUNCES TYPICAL
- SIZE: 1.5 (L) X 1.5 (W) X 0.40 (H)

ZONE		REV.	DESCRIPTION	DATE	APPROVED
		-	ORIGINAL RELEASE, JOB# 907134E-1	11/06/03	



BLOCK DIAGRAM



CONFIDENTIAL AND PROPRIETARY

**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 PRODUCT FEATURE MSN-3DT-05-STANDARD OPTION 818, 12X, LVT SOLID STATE SWITCH	
DRAWN <i>WJCS</i>	11/06/03	SIZE A	FSCM NO. 60483
CHECKED		DWG NO. 100-6834	REV. -
ISSUED		SCALE	SHEET 1 of 3