

DESCRIPTION:

AMC MODEL MSN-2DT-05-STANDARD OPTION 118, 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, LOW HARMONIC DISTORTION AND BROAD BAND OPERATIONS.

SPECIFICATIONS:

- FREQUENCY:1.0 GHz TO 18.2 GHz
- INSERTION LOSS: 3.5 dB MAXIMUM
- ISOLATION (ANY PORT): 60 dB MINIMUM
- VSWR (ANY PORT, ANY STATE): 2.5:1
- 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% @ 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: ±1.5dB, ±1.0dB 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 18.2 GHz
- WEIGHT: 1.5 OUNCES TYPICAL
- SIZE: 1.00 (L) X 1.00 (W) X 0.40 (H)

ENVIRONMENTAL RATINGS:

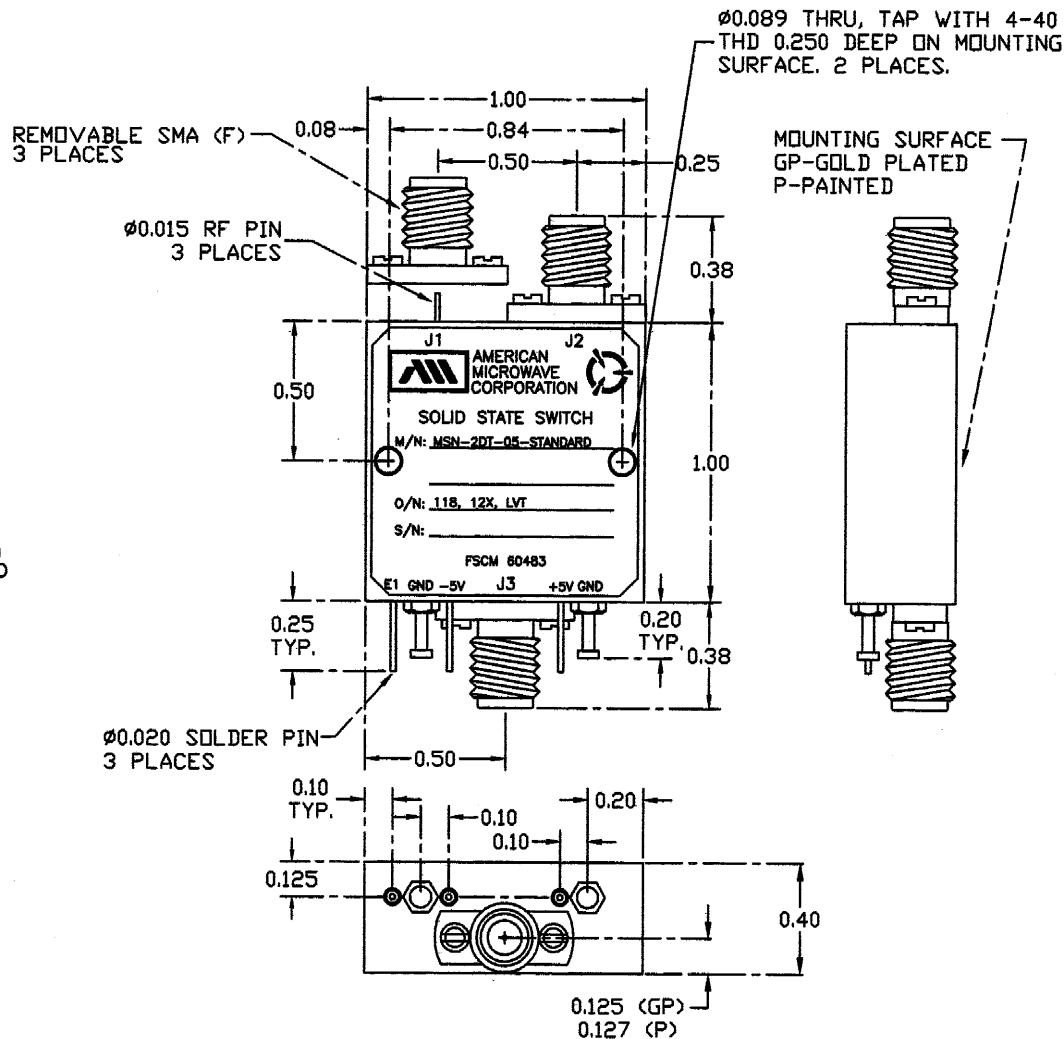
- TEMPERATURE: -10°C TO +55°C (OPERATING)
..... -40°C TO +71°C (STORAGE)
- HUMIDITY: 95% OVER TEMPERATURE
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

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	APPROVED
-	-	ORIGINAL RELEASE	8/2/99	



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		
WSP	8/2/99	OUTLINE DRAWING MSN-2DT-05-STANDARD OPTION 118, 12X, LVT SOLID STATE SWITCH		
DRAWN	CHECKED	SIZE	FSCM NO.	DWG NO.
		A	60483	100-3922-3
ISSUED		SCALE		REV.
				-
SHEET				1 of 1