| REVISIONS | | | | |
|---|---|---|---|---|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| | – | ORIGINAL JOB# 202038E-2 | 05/29/02 | |

## DESCRIPTION:

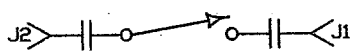
AMC MODEL SW-2183-1DT-100M2-HPR1W-FET-LVT IS A 0.1 TO 2 GHz, LOW VIDEO TRANSIENT, 1 WATT CW HIGH POWER, NON-REFLECTIVE SPST FET SWITCH HAVING RISE/FALL TIME OF 50nSec MAXIMUM, TURN ON/OFF OF 250nSec MAXIMUM, +5V @ 100mA, -5V @ 100mA, ISOLATION 50dB MINIMUM, 60dB TYPICAL, INSERTION LOSS 2.5dB MAXIMUM, 2.0dB TYPICAL.

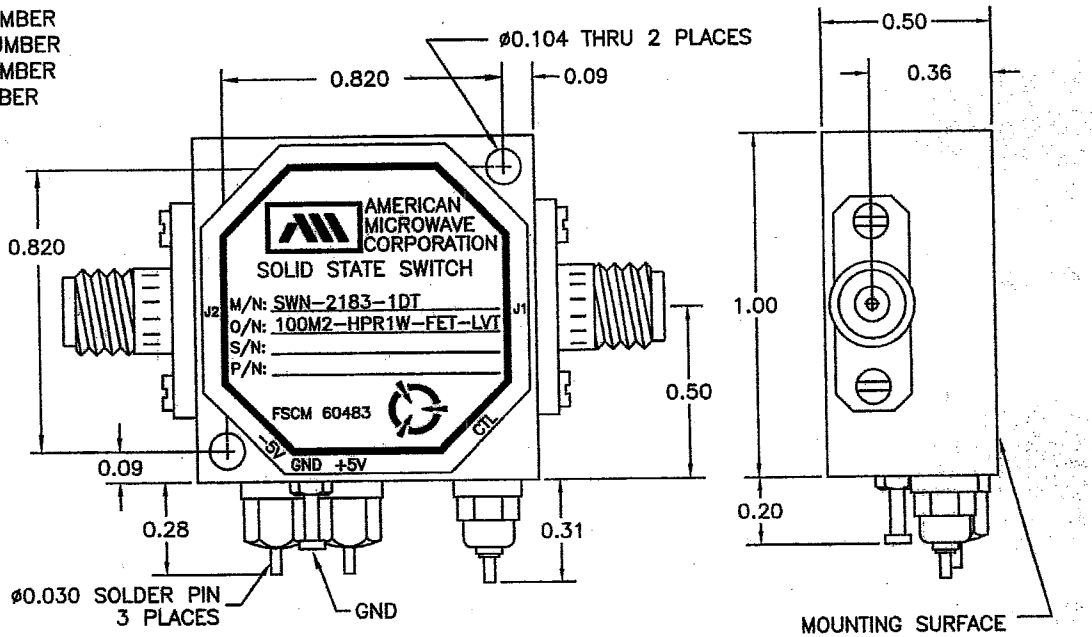
M/N = MODEL NUMBER
O/N = OPTION NUMBER
S/N = SERIAL NUMBER
P/N = PART NUMBER

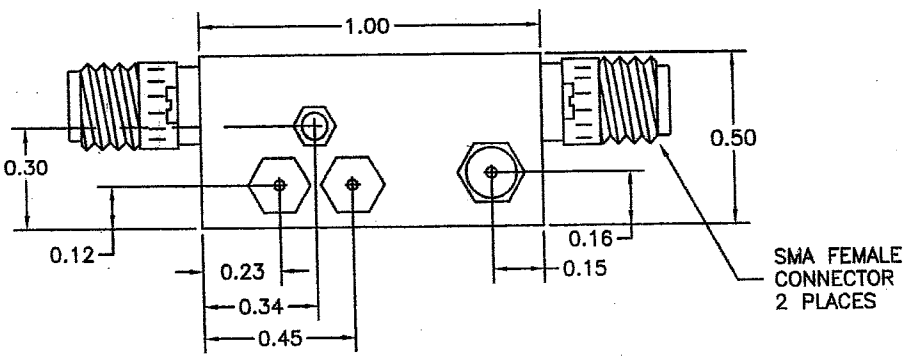
## SPECIFICATIONS:

- FREQUENCY: ..... 0.1 TO 2 GHz
- INSERTION LOSS: ..... 2.5 dB MAXIMUM, 2.0 dB TYPICAL
- ISOLATION: ..... 50 dB MINIMUM, 60 dB TYPICAL
- VSWR: ..... 2.0:1
- RF POWER: ..... 1 WATT CW
- RISE TIME: ..... 50 nS MAXIMUM
- FALL TIME: ..... 50 nS MAXIMUM
- DELAY ON: ..... 250 nS MAXIMUM
- DELAY OFF: ..... 250 nS MAXIMUM
- POWER SUPPLY: ..... +5V @ 100mA
  -5V @ 100mA
- CONTROL: ..... TTL LOGIC "0"=ON "1"=OFF
- SIZE: ..... 1.00" (L) x 1.00" (W) x 0.50" (H)
- WEIGHT: ..... 1.5 OUNCE TYPICAL

BLOCK DIAGRAM




ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

## ENVIRONMENTAL RATINGS

- OPERATING TEMPERATURE ..... -65°C TO 110°C
- NON-OPERATING TEMPERATURE ..... -65°C TO 125°C
- HUMIDITY ..... MIL-STD-202F, METHOD 103B COND. B
- 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

CONFIDENTIAL AND PROPRIETARY

| APPROVALS | DATE |
|---|---|
| DRAWN KAB | 05/29/02 |
| CHECKED LA | 7/10/02 |
| ISSUED | |

AMERICAN MICROWAVE CORPORATION
FREDERICK, MARYLAND

TITLE: PRODUCT FEATURE
SW-2183-1DT-100M2-HPR1W-FET-LVT
0.1 – 2 GHz NON-REFLECTIVE
HIGH POWER SPST FET SWITCH

| SIZE | FSCM NO. | DWG NO. | REV. |
|---|---|---|---|
| A | 60483 | 100-6361 | – |

SCALE N/A SHEET 1 OF 3