

**DESCRIPTION:**

AMC MODEL SWN-2183-1AT OPTION: 052, HS100NS, REVL, SHL IS A 0.5 TO 2 GHz, SPST NON-REFLECTIVE/ABSORPTIVE SWITCH HAVING A RISE TIME OF 100 nSec, VSWR OF 1.5:1 MAXIMUM, ISOLATION OF 70 dB MINIMUM, INSERTION LOSS OF 1.2 dB MAXIMUM.

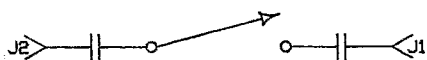
| REVISIONS |      |                       | DATE     | APPROVED |
|-----------|------|-----------------------|----------|----------|
| ZONE      | REV. | DESCRIPTION           |          |          |
|           | -    | ORIGINAL JOB# 203047E | 04/29/02 |          |

**SPECIFICATIONS:**

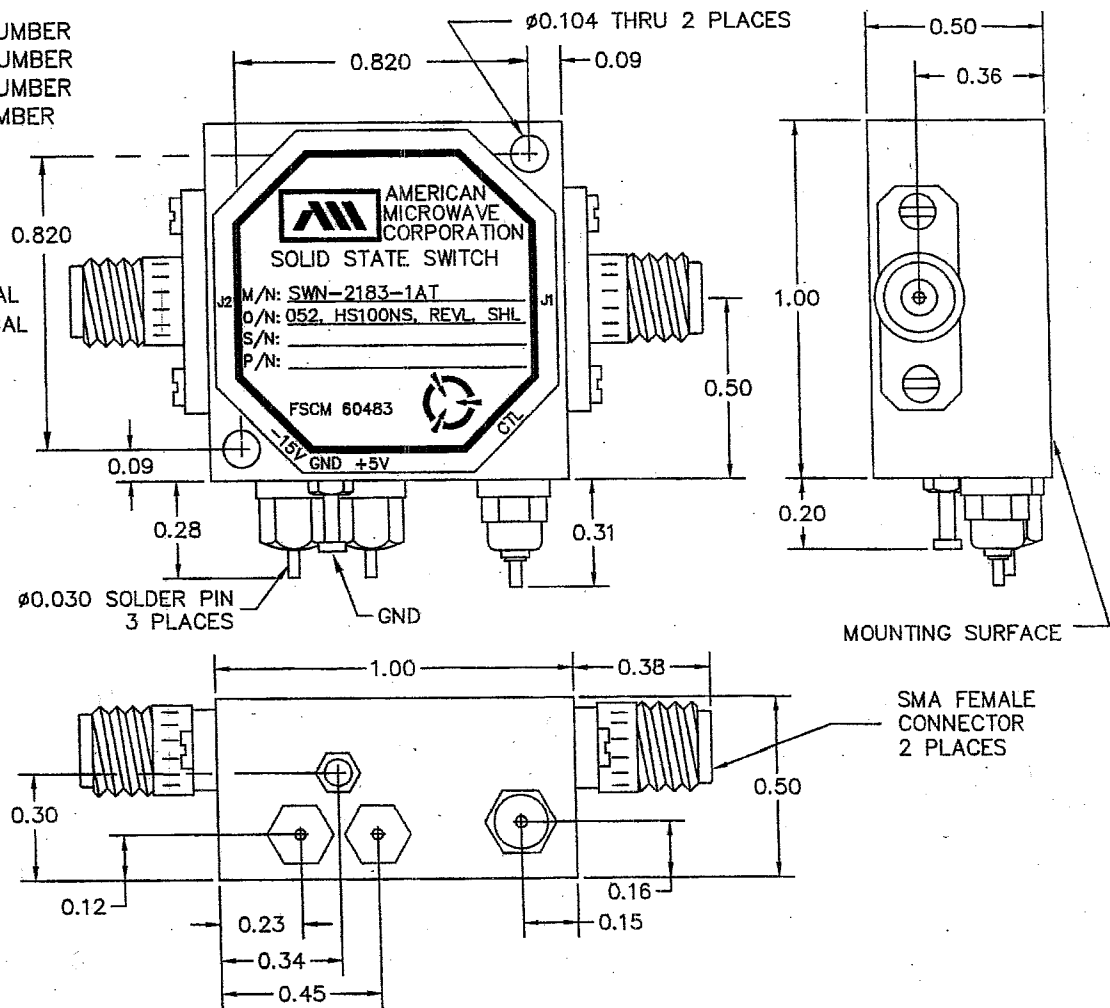
- FREQUENCY: . . . . . 0.5 TO 2 GHz
- INSERTION LOSS: . . . . . 1.2 dB MAXIMUM
- ISOLATION: . . . . . 70 dB MINIMUM
- VSWR: . . . . . 1.5:1 MAXIMUM
- RISE TIME: . . . . . 100 nSec MAXIMUM
- POWER SUPPLY: . . . . . +5V @ 100 mA MAXIMUM, 50 mA TYPICAL  
-15V @ 100 mA MAXIMUM, 50 mA TYPICAL
- CONTROL: . . . . . TTL LOGIC "1"=ON, "0"=OFF
- SIZE: . . . . . 1.00" (L) x 1.00" (W) x 0.50" (H)
- WEIGHT: . . . . . 1.5 OUNCE TYPICAL

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

**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 CONDITION B
- SHOCK: . . . . . MIL-STD-202F, METHOD 213B CONDITION B
- VIBRATION: . . . . . MIL-STD-202F, METHOD 204D CONDITION B
- ALTITUDE: . . . . . MIL-STD-202F, METHOD 105C CONDITION B
- TEMPERATURE CYCLE: . . . . . MIL-STD-202F, METHOD 107D CONDITION A

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

**CONFIDENTIAL AND PROPRIETARY**

|                            |          |   |                 |          |
|----------------------------|----------|---|-----------------|----------|
| PART NO.                   |          | AMERICAN MICROWAVE CORPORATION<br>FREDERICK, MARYLAND |                 |          |
| APPROVALS                  | DATE     | TITLE   | PRODUCT FEATURE |          |
| DRAWN <i>gdy</i>           | 04/29/02 | SWN-2183-1AT  |                 |          |
| CHECKED <i>[Signature]</i> | 4/29/02  | OPTION: 052, HS100NS, REVL, SHL                       |                 |          |
| ISSUED <i>[Signature]</i>  | 4/29/02  | SIZE  | FSCM NO.        | DWG NO.  |
|                            |          | A   | 60483           | 100-6341 |