REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	–	ORIGINAL JOB# 202038E-1	04/01/02	

DESCRIPTION:

AMC MODEL SW-2183-1DT-218-HPR3W-SHL-LVT IS A 2 TO 18 GHZ, LOW VIDEO TRANSIENT, 3 WATT CW HIGH POWER, NON-REFLECTIVE PIN DIODE SWITCH HAVING A RISE/FALL TIME OF 20 nS MAXIMUM AND TURN ON/OFF OF 100 nS MAXIMUM, +5V @ 100 mA MAXIMUM, -15V @ 100 mA MAXIMUM WITH A SHUNT LOAD TO HANDLE 3 WATTS MAXIMUM. ISOLATION WILL BE 50 dB MINIMUM, 60 dB TYPICAL, INSERTION LOSS 3.5 dB MAXIMUM, 3.0 dB TYPICAL.

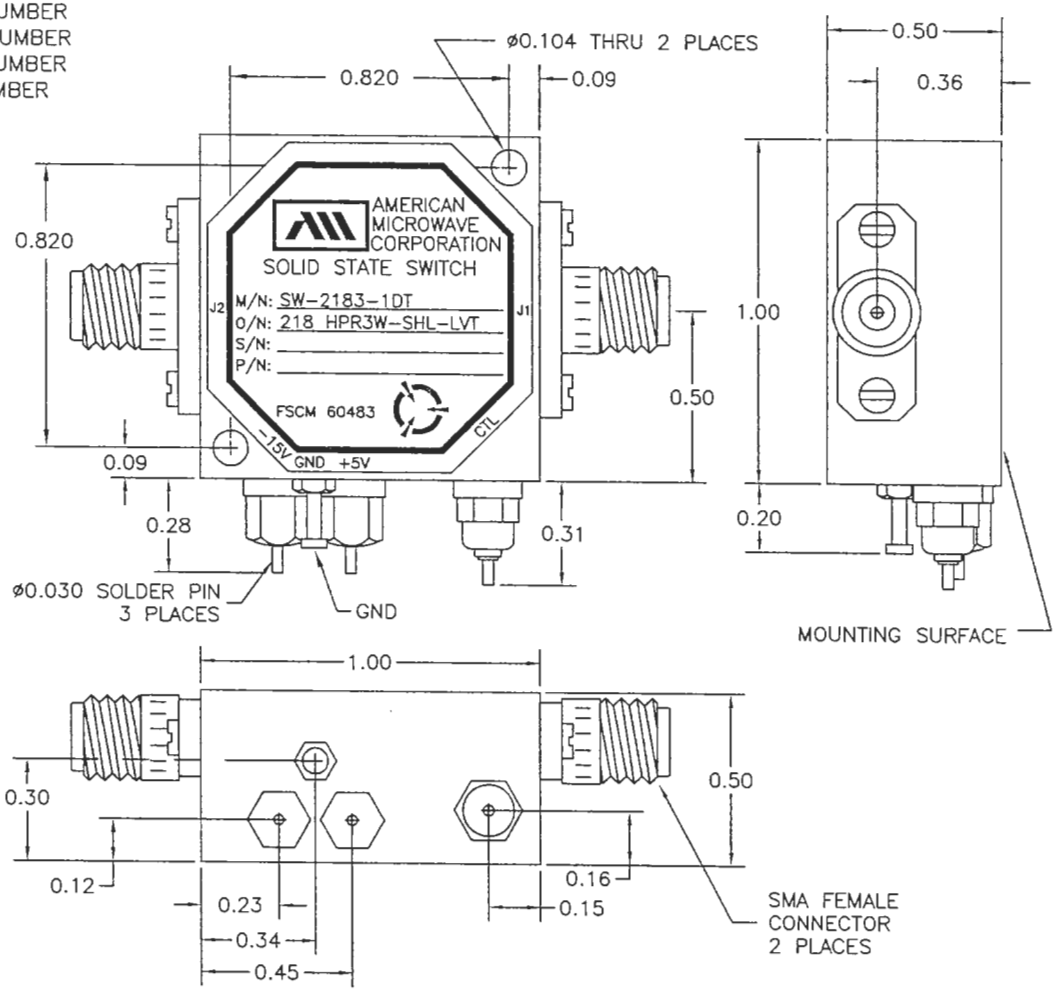
M/N = MODEL NUMBER
O/N = OPTION NUMBER
S/N = SERIAL NUMBER
P/N = PART NUMBER

SPECIFICATIONS:

- FREQUENCY: 2 TO 18 GHz
- INSERTION LOSS: 3.5dB MAXIMUM, 3.0dB TYPICAL
- ISOLATION: 50dB MINIMUM, 60dB TYPICAL
- VSWR: 2.0:1
- RF POWER: 3 WATT CW
- RISE TIME: 20 nS MAXIMUM
- FALL TIME: 20 nS MAXIMUM
- DELAY ON: 100 nS MAXIMUM
- DELAY OFF: 100 nS MAXIMUM
- POWER SUPPLY: +5V @ 100mA
  -15V @ 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: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

APPROVALS	DATE
DRAWN JDJ	04/01/02
REDRAWN JDJ	8/5/04
ISSUED	8/26/04

AMERICAN MICROWAVE CORPORATION
FREDERICK, MARYLAND

TITLE PRODUCT FEATURE
SW-2183-1DT-218-HPR3W-SHL-LVT
2 - 18 GHz NON-REFLECTIVE
HIGH POWER PIN DIODE SWITCH

SIZE	FSCM NO.	DWG NO.	REV.
A	60483	100-6320	–

SCALE N/S SHEET 1 OF 3