

DESCRIPTION

AMC MODEL SWN-RRR-2DR-LSI OPTION: NG, DB IS A HERMETICALLY SEALED REFLECTIVE SINGLE POLE TWO THROW SWITCH DESIGNED TO OPERATE OVER THE FULL 2 TO 18 GHz FREQUENCY RANGE.

SPECIFICATIONS

- FREQUENCY RANGE: 2 TO 18 GHz
- INSERTION LOSS: 3.5 dB MAXIMUM
- INSERTION LOSS FLATNESS
OVER 500 MHz: NO MORE THAN ±1.5 dB IN ANY 500 MHz BAND
- ISOLATION: 60 dB MINIMUM
- VSWR: 2.0:1 MAXIMUM
- RESPONSE TIME: 350 nSec MAXIMUM
- POWER INPUT: +30 dBm MINIMUM
- SURVIVAL POWER: 33 dBm CW, 40 dBm PEAK 1 uS
- VIDEO TRANSIENTS: 150 mV PEAK IN A 300MHz BW
- SPECTRAL ACTIVITY: -70 dBm MAXIMUM
- CONTROL: TTL LOGIC "0" = J1-J2 ON
TTL LOGIC "1" = J1-J3 ON
- DIGITAL LOGIC INTERFACE: THE DIGITAL INPUT SIGNAL TO THE RF SWITCH
IS 3.3-VOLT CMOS LOGIC (SEE TABLE 1 BELOW)
- POWER SUPPLY: +5V (+0.2V/-0.3V) @ 150 mA MAXIMUM
-15.5V (±1.56V) @ 75 mA MAXIMUM
- CONNECTORS:
RF: SMA FEMALE
CONTROL: SMA FEMALE
- SIZE: 1.75" (L) x 1.32" (W) x 0.49" (H)

NOTE: FOR ADDITIONAL INFORMATION REFER TO CUSTOMER SCD NUMBER 093-013436

OPTIONS:

- NG: CUSTOMER SPECIFICATIONS (SCD 093-013436)
- DB: CUSTOMER SPECIFICATIONS (SCD 093-013436)

TABLE 1 DIGITAL DRIVER CHARACTERISTICS

| PARAMETER | MINIMUM | TYPICAL | MAXIMUM | UNITS |
|----------------------------------|---------|---------|---------|-------|
| LOGIC HIGH VOLTAGE, VH | 2 | | 3.5 | V |
| LOGIC LOW VOLTAGE, VL | -0.5 | | 0.8 | V |
| LOGIC HIGH CURRENT @ VH (NOTE 1) | 3 | | | mA |
| LOGIC LOW CURRENT @ VL (NOTE 1) | | -3 | -8 | mA |
| LOAD CAPACITANCE (NOTE 2) | | | 35 | pF |
| RISE TIME (NOTE 3) | 1 | 2 | 10 | ns |
| FALL TIME (NOTE 3) | 1 | 2 | 10 | ns |

NOTE 1: THE MAXIMUM CURRENT INTO ANY ON INPUT IS ± 300 uA.

NOTE 2: THE MAXIMUM CAPACITANCE FOR ANY ONE INPUT IS 4 PF.

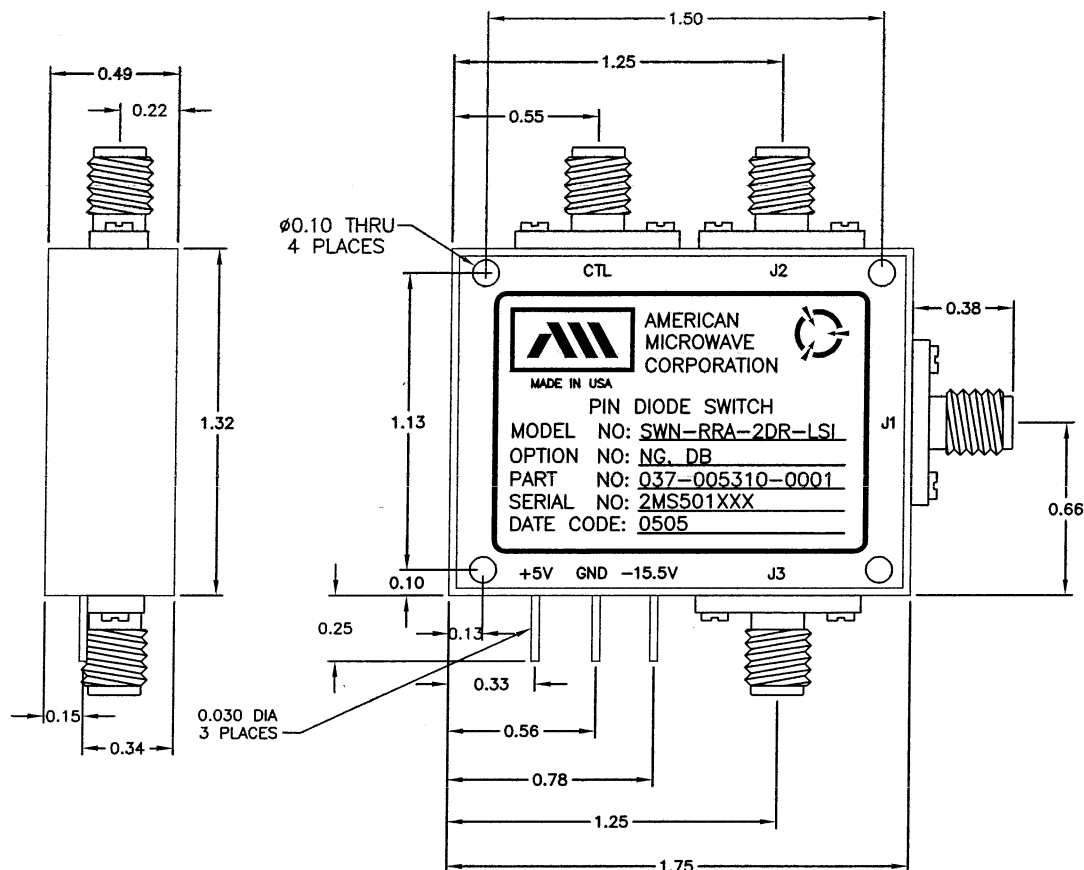
NOTE 3: INTO THE MAXIMUM SPECIFIED LOAD CAPACITANCE.

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -55°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- 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

| REVISIONS | | | | |
|-----------|------|---------------------------------|---------|----------|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| - | - | ORIGINAL RELEASE JOB# 411267E-1 | 3/11/05 | |



AMERICAN MICROWAVE CORPORATION

7311-G GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-4700 FAX: 301-662-4938
WEBSITE: www.americanmicrowavecorp.com
E-MAIL: sales@americanmicrowavecorp.com
ISO 9001:2000 CERTIFIED



| APPROVALS | | DATE | TITLE | | |
|-----------|------------|----------------|--|----------|----------|
| DRAWN | <i>JCM</i> | 3/11/05 | PRODUCT FEATURE SWN-RRR-2DR-LSI OPTION: NG, DB | | |
| CHECKED | <i>AK</i> | <i>shielos</i> | 2 - 18 GHz, SINGLE POLE TWO THROW SWITCH | | |
| ISSUED | | | SIZE | FSCM NO. | DWG NO. |
| | | | A | 60483 | 100-7302 |
| | | | SCALE | N:S | SHEET |
| | | | | | 1 OF 3 |

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

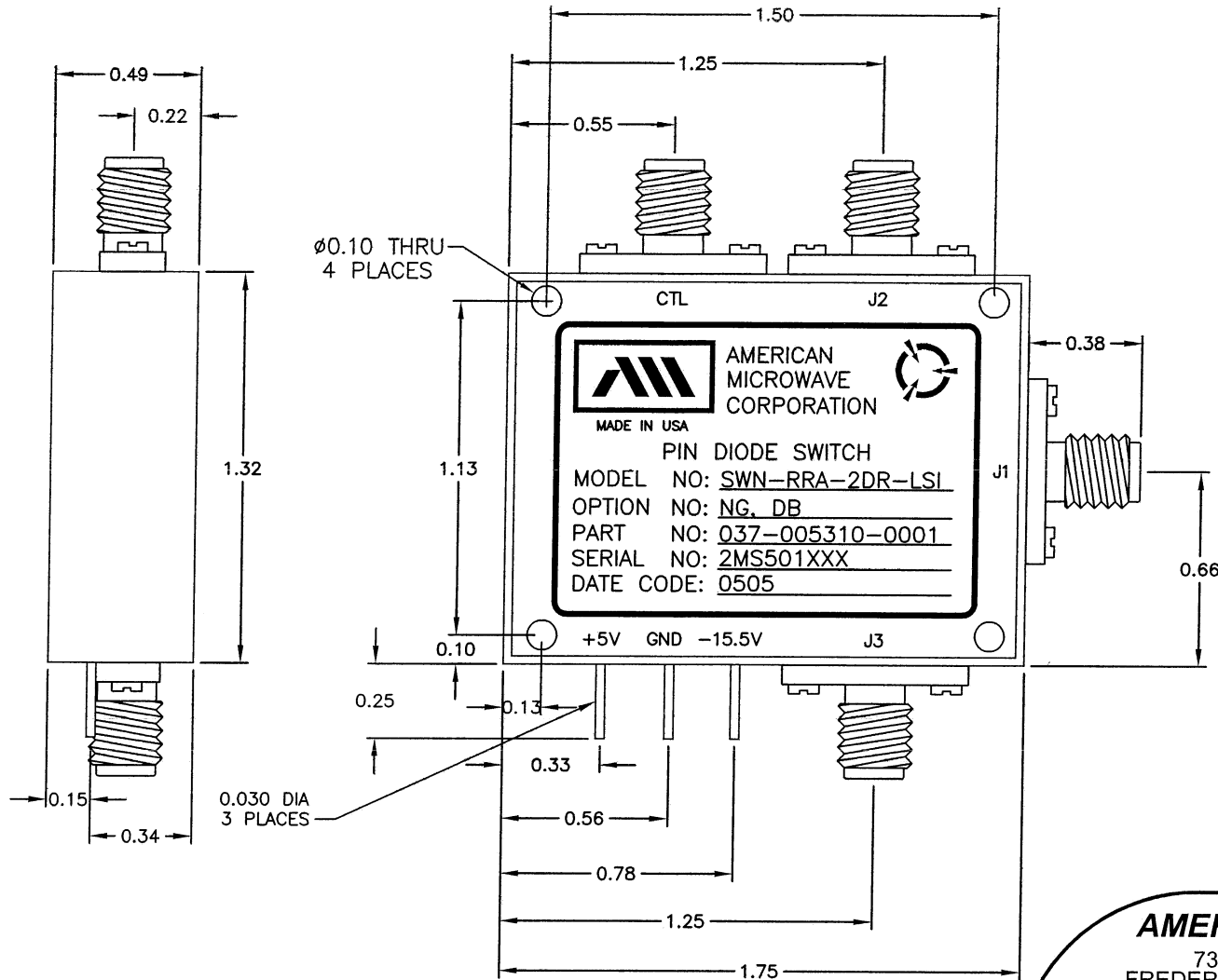
WUB 3/18/05

DESCRIPTION

AMC MODEL SWN-RRA-2DR-LSI OPTION: NG, DB IS A HERMETICALLY SEALED REFLECTIVE SINGLE POLE TWO THROW SWITCH DESIGNED TO OPERATE OVER THE FULL 2 TO 18 GHz FREQUENCY RANGE.

| REVISIONS | | | | |
|-----------|------|---------------------------------|---------|----------|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| - | - | ORIGINAL RELEASE JOB# 411267E-1 | 9/11/05 | |

MECHANICAL OUTLINE



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

AMERICAN MICROWAVE CORPORATION
7311-G GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-4700 FAX: 301-662-4938
WEBSITE: www.americanmicrowavecorp.com
E-MAIL: sales@americanmicrowavecorp.com
ISO 9001:2000 CERTIFIED



| APPROVALS | | DATE | TITLE | | |
|-----------|------|---------|---|----------|--------------|
| DRAWN | JRCM | 9/11/05 | MECHANICAL OUTLINE SWN-RRA-2DR-LSI OPTION: NG, DB | | |
| CHECKED | PK | 9/18/05 | 2 - 18 GHz, SINGLE POLE TWO THROW SWITCH | | |
| ISSUED | | | SIZE | FSCM NO. | DWG NO. |
| | | | A | 60483 | 100-7302 |
| | | | SCALE | N:S | SHEET 2 OF 3 |