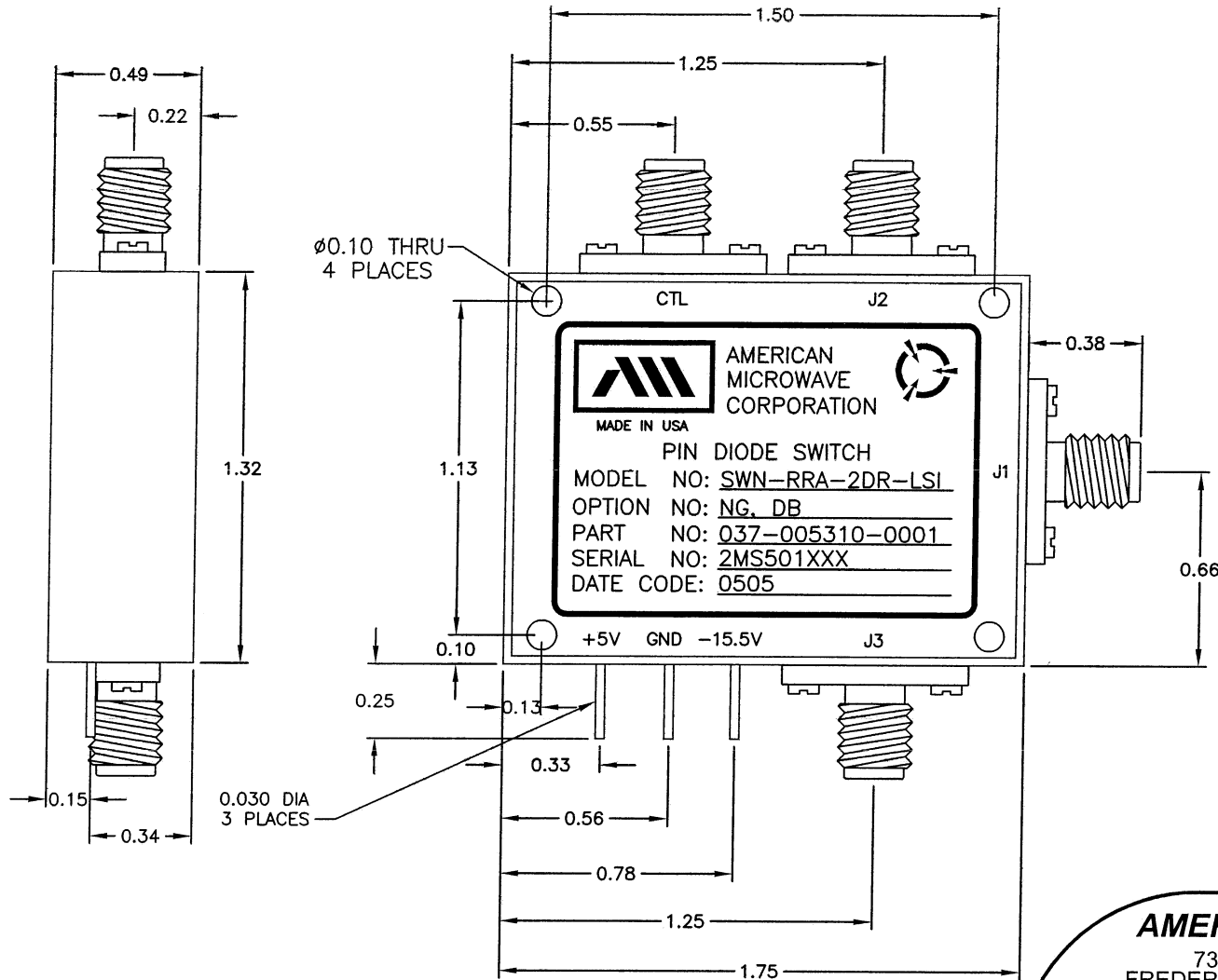


DESCRIPTION

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
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ISO 9001:2000 CERTIFIED



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

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.

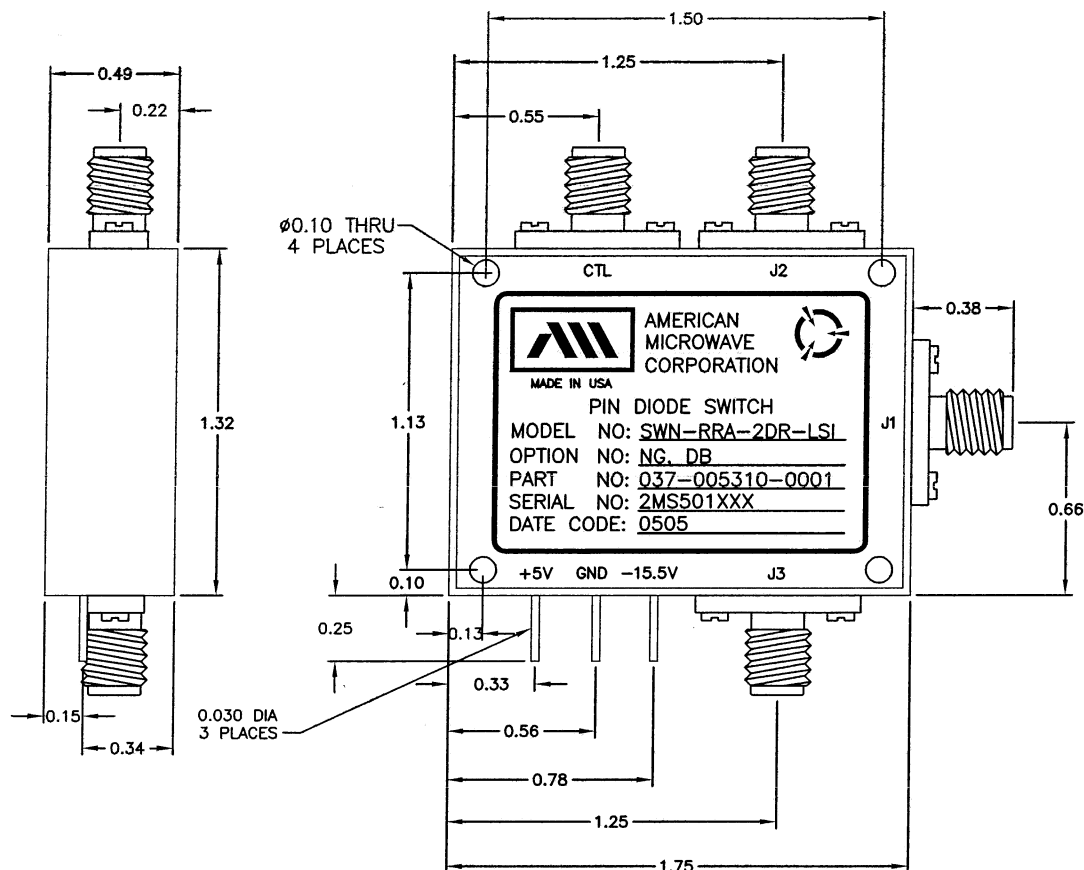
NOTE 3: INTO THE MAXIMUM SPECIFIED LOAD CAPACITANCE.

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	



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

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TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

WUB 3/18/05