

## DESCRIPTION

AMC MODEL SW-2TDR-LS1 IS A REFLECTIVE BROAD BAND SPDT PIN DIODE SWITCH MODULE WITH A FREQUENCY RANGE OF 8 TO 18 GHz AND 93 OHM INPUT IMPEDANCE.

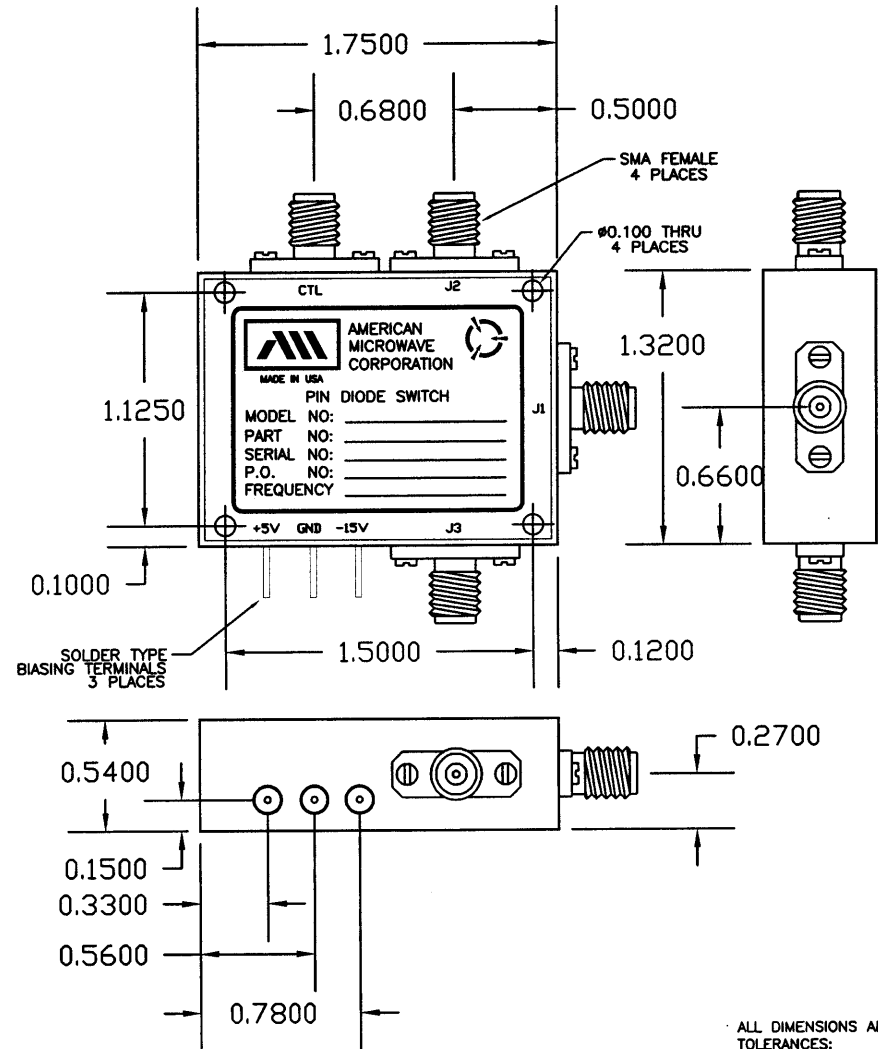
## SPECIFICATIONS

- FREQUENCY RANGE . . . . . 8-18 GHz MINIMUM
- INSERTION LOSS . . . . . 3.0 dB MAXIMUM
- ISOLATION . . . . . 8-18 GHz 60 dB MINIMUM
- VSWR (ON) . . . . . 2:0 MAXIMUM
- RF POWER RATING . . . . . 27dBm CW MAX AVERAGE @ 8.0 GHz
- SWITCHING TIME
  - RISE (10% RF TO 90% RF) . . . . . 10 nS MAXIMUM
  - FALL (90% RF TO 10% RF) . . . . . 15 nS MAXIMUM
  - ON (50% TTL TO 90% RF) . . . . . 60 nS MAXIMUM
  - OFF (50% TTL TO 10% RF) . . . . . 60 nS MAXIMUM
- CONTROL . . . . . SINGLE CONTROL  
 LOGIC "0" = J1-J3  
 LOGIC "1" = J1-J2
- POWER SUPPLY . . . . . + 5VDC ±2% @ 250 mA MAXIMUM  
 -15VDC ±2% @ 100 mA MAXIMUM
- CONNECTORS
  - RF INPUT/OUTPUT . . . . . SMA (FEMALE)
  - POWER . . . . . SOLDER PIN
  - CONTROL . . . . . SMA (FEMALE)
- SIZE . . . . . 1.750" x 1.320" x 0.540"
- INPUT IMPEDANCE . . . . . 93 OHMS

## ENVIRONMENTAL RATINGS

- TEMPERATURE . . . . . -40°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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE	12/29/03	
JOB #405101-1E				



ALL DIMENSIONS ARE IN INCHES  
 TOLERANCES:  
 X.XX ±0.010  
 X.XXX ±0.005

PART NO.		AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND	
APPROVALS	DATE	TITLE	
DRAWN	12/29/03	PRODUCT FEATURE	
CHECKED	12/23/03	SW-2TDR-LS1	
ISSUED		OPTION: LS1	
SIZE	FSCM NO.	DWG NO.	REV.
A	60483	100-6873	-
SCALE N:S		SHEET 1 OF 3	