

**DESCRIPTION**

AMC MODEL MSN-12DR/DT-05-STANDARD IS A SINGLE POLE TWELVE THROW, REFLECTIVE OR ABSORPTIVE/NON-REFLECTIVE SWITCH MODULE DESIGNED TO OPERATE OVER THE FULL 0.5 TO 18 GHz FREQUENCY RANGE.

| REVISIONS |      |                |         |          |
|-----------|------|----------------|---------|----------|
| ZONE      | REV. | DESCRIPTION    | DATE    | APPROVED |
|           | A    | SEE ER# 032-10 | 4/30/10 | RA       |

**SPECIFICATIONS:**

- FREQUENCY: . . . . . 0.5 GHz TO 18 GHz
- INSERTION LOSS: . . . . . REFLECTIVE: 5.0 dB MAXIMUM  
 ABSORPTIVE: 5.5 dB MAXIMUM
- ISOLATION: . . . . . 0.5 GHz TO 18 GHz: 60 dB MINIMUM
- VSWR: . . . . . REFLECTIVE IN/OUT: 2.0:1  
 ABSORPTIVE IN/OUT: 2.0:1  
 ABSORPTIVE OUT/OFF: 2.0:1
- SPEED: . . . . . RISE: 50ns MAX.  
 FALL: 50ns MAX.  
 DELAY ON: 150ns MAX.  
 DELAY OFF: 150ns MAX.
- POWER INPUT: . . . . . (CW)+20dBm (STANDARD), +10 dBm (HIGH SPEED)
- SURVIVAL POWER: . . . . . 1 WATT CW, 10 WATTS PEAK 1 usec
- CONTROL: . . . . . TTL LOGIC "0"=ON "1"=OFF
- POWER SUPPLY: . . . . . +5V @ 600 mA MAX.  
 -5V @ 150mA MAX.(REFLECTIVE)  
 200mA MAX.(ABSORPTIVE/NON-REFLECTIVE)

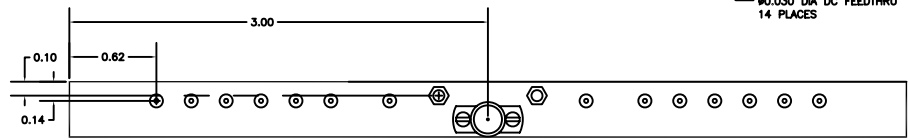
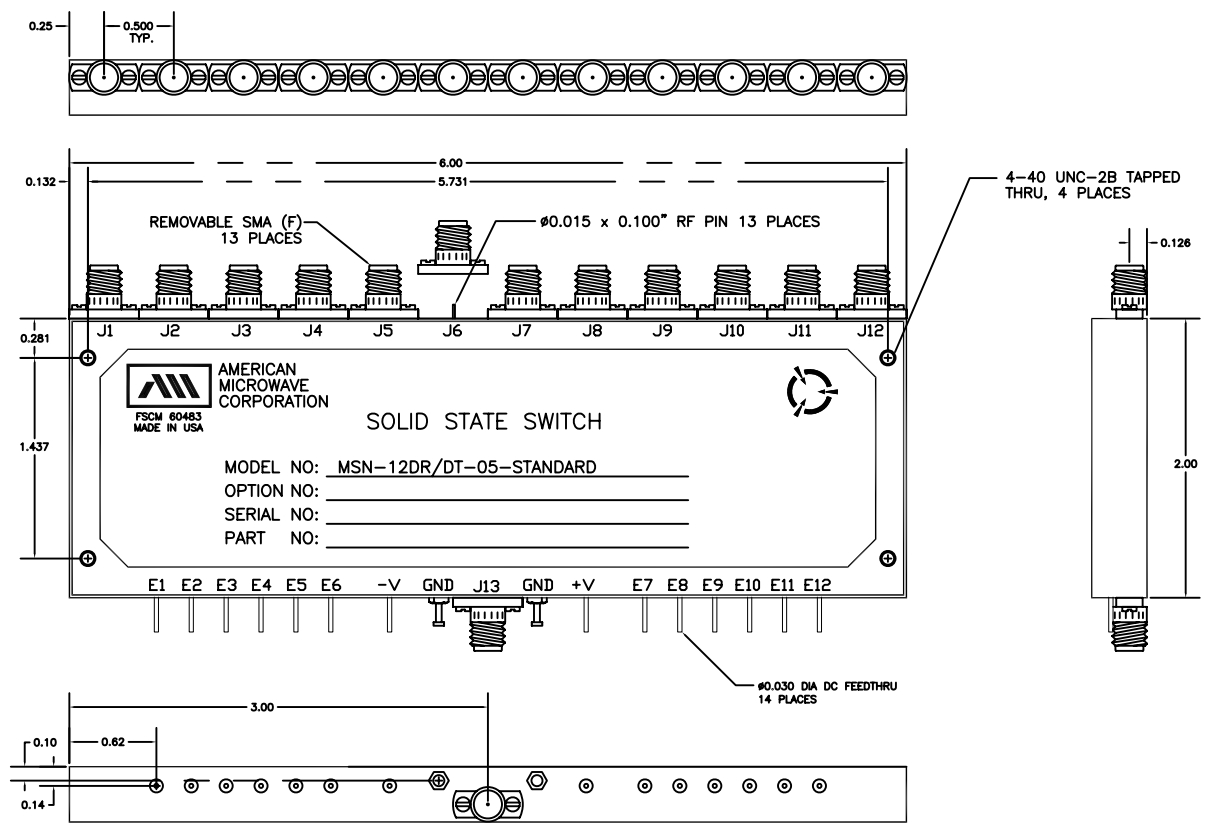
**OPTIONS:**

- DEC-MP . . . . . 4 BIT DECODER WITH MULTIPIN
- DEC-SP . . . . . 4 BIT DECODER WITH SOLDER PIN
- MP-IND . . . . . INDEPENDENT CONTROL WITH MULTIPIN
- B01 . . . . . -12V POWER SUPPLIES
- B02 . . . . . -15V POWER SUPPLIES
- B03 . . . . . REVERSE LOGIC "1"=ON "0"=OFF
- B05 . . . . . HIGH SPEED, TURNON/TURNOFF 25 nsec MAXIMUM WHEN APPLICABLE
- B06 . . . . . HIGH POWER - SPECIFY CW POWER, PEAK POWER, PULSE WIDTH, DUTY CYCLE, RF FREQUENCY AND BANDWIDTH
- B08 . . . . . LOW VIDEO TRANSIENTS - SPECIFY VIDEO BANDWIDTH (2-18GHz)
- B10 . . . . . HIGHER ISOLATION VERSION (SPECIFY)

**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

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION  
 \* Units are designed to meet Environmental ratings but not tested. If Environmental Testing is required, please contact Sales Department.



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

|                |         |   |                   |
|----------------|---------|---|-------------------|
| PART NO.       |         | AMERICAN MICROWAVE CORPORATION<br>FREDERICK, MARYLAND |                   |
| APPROVALS      | DATE    | TITLE   |                   |
| DRAWN<br>K PPM | 4/30/10 | OUTLINE DRAWING<br>MSN-12DR/DT-05-STANDARD            |                   |
| ENG.<br>RA     | 4/30/10 | SIZE<br>A   | FSCM NO.<br>60483 |
| QAE<br>K PPM   | 4/30/10 | DWG NO.<br>100-7951                                   | REV.<br>A         |
| SCALE N/S      |         | SHEET 1 of 1  |                   |