

SPECIFICATIONS:

- **FREQUENCY:**..... 0.5 GHz TO 18 GHz
- **INSERTION LOSS:**..... REFLECTIVE: 4.0db
ABSORPTIVE: 4.5db
- **ISOLATION:**..... 0.5 GHz TO 2 GHz: 60db
2 GHz TO 18 GHz: 70db
- **VSWR:**..... REFLECTIVE IN/OUT: 2.0:1
ABSORPTIVE IN/OUT: 2.0:1
ABSORPTIVE OUT/OFF: 2.0:1
- **SPEED:**..... RISE: 10ns TYPICAL, 15ns MAX.
FALL: 10ns TYPICAL, 15ns MAX.
DELAY ON: 75ns TYPICAL, 100ns MAX.
DELAY OFF: 75ns TYPICAL, 100ns 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 @ 400 mA MAX.
-5V @ 75mA MAX.(REFLECTIVE)
100mA MAX.(ABSORPTIVE/NON-REFLECTIVE)

OPTIONS:

INDEPENDENT CONTROL WITH SOLDER PIN STANDARD

- DEC-MP..... 3 BIT DECODER WITH MULTIPIN
- DEC-SP..... 3 BIT DECODER WITH SOLDER PIN
- MP-IND..... INDEPENDENT CONTROL WITH MULTIPIN
- 10M18..... 10 MHz TO 18 GHz (INSERTION LOSS INCREASES BY 1.5db AT 10 MHz AND 0.5db AT 18 GHz)
- 100M18..... 100 MHz TO 18 GHz (INSERTION LOSS INCREASES BY 1.5db AT 100 MHz AND 0.5db AT 18 GHz)
- 118..... 1 GHz TO 18 GHz (NO CHANGE IN INSERTION LOSS)
- 218..... 2 GHz TO 18 GHz (NO CHANGE IN INSERTION LOSS)
- 412..... 4 GHz TO 12.4 GHz (NO CHANGE IN INSERTION LOSS)
- 618..... 6 GHz TO 18 GHz (NO CHANGE IN INSERTION LOSS)
- 1218..... 12 GHz TO 18 GHz (NO CHANGE IN INSERTION LOSS)
- 100M20..... 100 MHz TO 20 GHz (INSERTION LOSS INCREASES BY 1.5db AT 100 MHz AND 1.0db AT 20 GHz)
- 220..... 2 GHz TO 20 GHz (INSERTION LOSS INCREASES BY 1.0db AT 20 GHz)
- 1020..... 10 GHz TO 20 GHz (INSERTION LOSS INCREASES BY 1.0db AT 20 GHz)
- B01..... -12V POWER SUPPLIES
- B02..... -15V POWER SUPPLIES
- B03..... REVERSE LOGIC "1"=ON "0"=OFF
- B04..... DRIVERLESS, CURRENT CONTROLLED
- 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
- B07..... CUSTOM DESIGNED PRODUCT- SPECIFY INITIALS OF CUSTOMER
- B08..... LOW VIDEO TRANSIENTS - SPECIFY VIDEO BANDWIDTH
- B09..... LOW INSERTION LOSS VERSION
- B10..... HIGHER ISOLATION VERSION
- B11..... 0.5" THICK VERSION WITH REMOVABLE 4 HOLE FLANGE SMA (F)

ENVIRONMENTAL RATINGS:

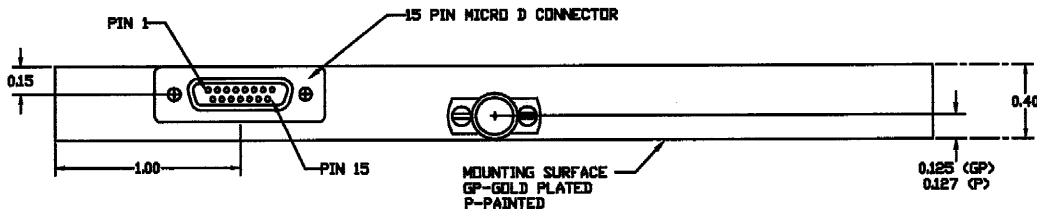
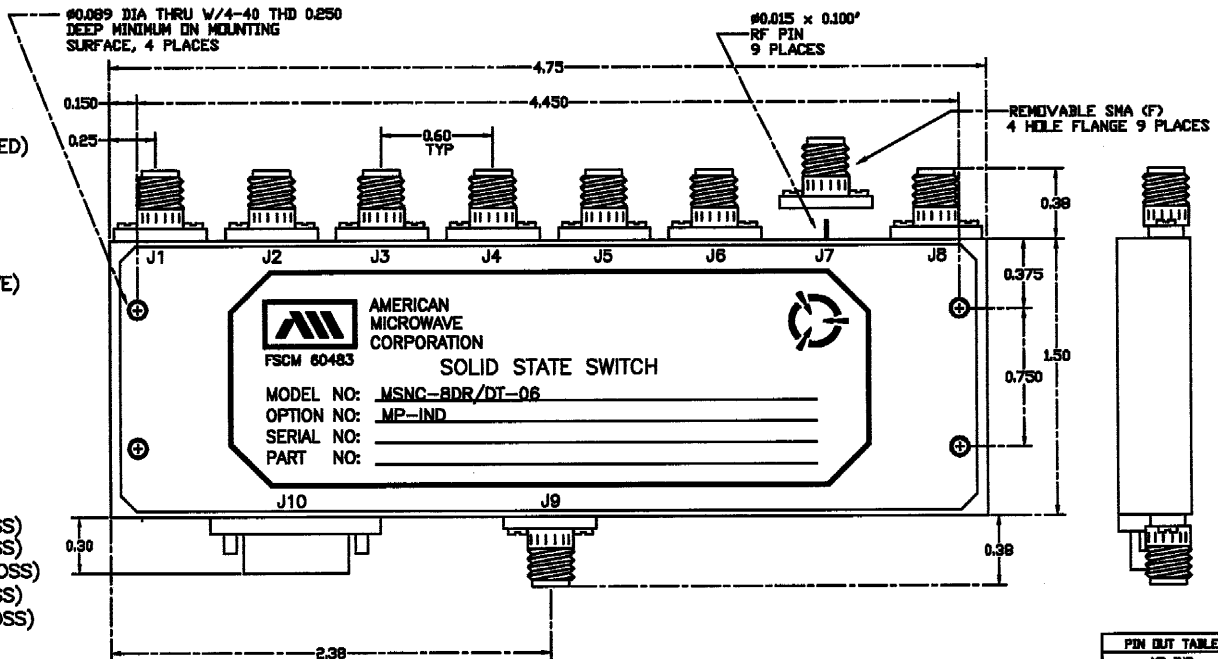
- **TEMPERATURE:**..... -55°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- **HUMIDITY:**..... MIL-STD-202F, METHOD 103B COND. B
- **SHOCK:**..... MIL-STD-202F, METHOD 213B COND. B
- **VIBRATION:**..... MIL-STD-202F, METHOD 204D COND. B
- **ALTITUDE:**..... MIL-STD-202F, METHOD 105C COND. B
- **TEMPERATURE CYCLE:**..... MIL-STD-202F, METHOD 107D COND. A

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:

- X.XX ±0.020
- X.XXX ±0.010

| ZONE | | REV. | DESCRIPTION | DATE | APPROVED |
|------|--|------|------------------|---------|----------|
| | | | ORIGINAL RELEASE | 1/15/98 | |



| PIN OUT TABLE | |
|---------------|----------|
| MP-IND | |
| PIN NO. | FUNCTION |
| 1 | E1 |
| 2 | E2 |
| 3 | E3 |
| 4 | E4 |
| 5 | E5 |
| 6 | E6 |
| 7 | E7 |
| 8 | E8 |
| 9 | N/C |
| 10 | N/C |
| 11 | N/C |
| 12 | GND |
| 13 | +V |
| 14 | -V |
| 15 | GND |

NOTE:

- DR=WITH DRIVER, REFLECTIVE
- DT=WITH DRIVER, NON-REFLECTIVE/ABSORPTIVE

| | | | |
|--------------|---------|---|--------------|
| PART NO. | | AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND | |
| APPROVALS | DATE | TITLE | |
| DRAWN WSP | 1/15/98 | OUTLINE DRAWING MSNC-BDR/DT-06-MP-IND REFLECTIVE OR NON-REFLECTIVE/ABSORPTIVE SOLID STATE SWITCH | |
| CHECKED | | SIZE | PFCM NO. |
| ISSUED | | A | 60483 |
| | | DWG NO. | 100-4298-4 |
| | | SCALE | SHEET 1 of 1 |