

DESCRIPTION:

AMC MODEL MSN-8DT-05-DEC-MP OPTION EB IS A SINGLE POLE EIGHT THROW NON-REFLECTIVE/ABSORPTIVE SWITCH MODULE WITH VERY LOW INSERTION LOSS, HIGH ISOLATION AND WITH INTEGRAL TTL DRIVER, DESIGNED FOR 0.5 TO 18 GHz OPERATION.

| REVISIONS | | | | |
|-----------|------|--------------------------------|----------|----------|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| | - | ORIGINAL RELEASE JOB# 607140-1 | 9/25/06 | |
| | A | ECR# 06-023 | 11/15/06 | |
| | B | SEE ECN# 11-080 | 8/25/11 | Rd |

SPECIFICATIONS:

- FREQUENCY: 0.5 GHz TO 18 GHz
- INSERTION LOSS: REFLECTIVE: 3.5db
ABSORPTIVE: 4.0db
- ISOLATION: 0.5 GHz TO 2 GHz: 60db
2 GHz TO 18 GHz: 70db
- VSWR: 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 SUPPLY: +5V @ 400mA MAX.
-5V @ 100mA MAX.(ABSORPTIVE/NON-REFLECTIVE)

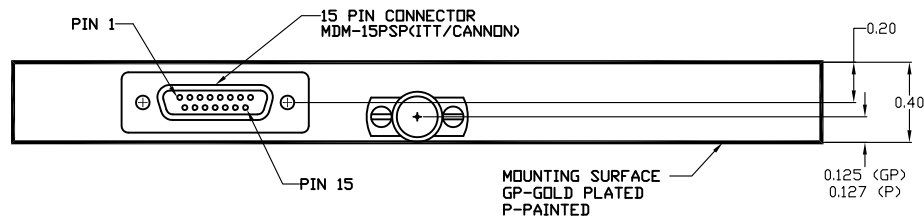
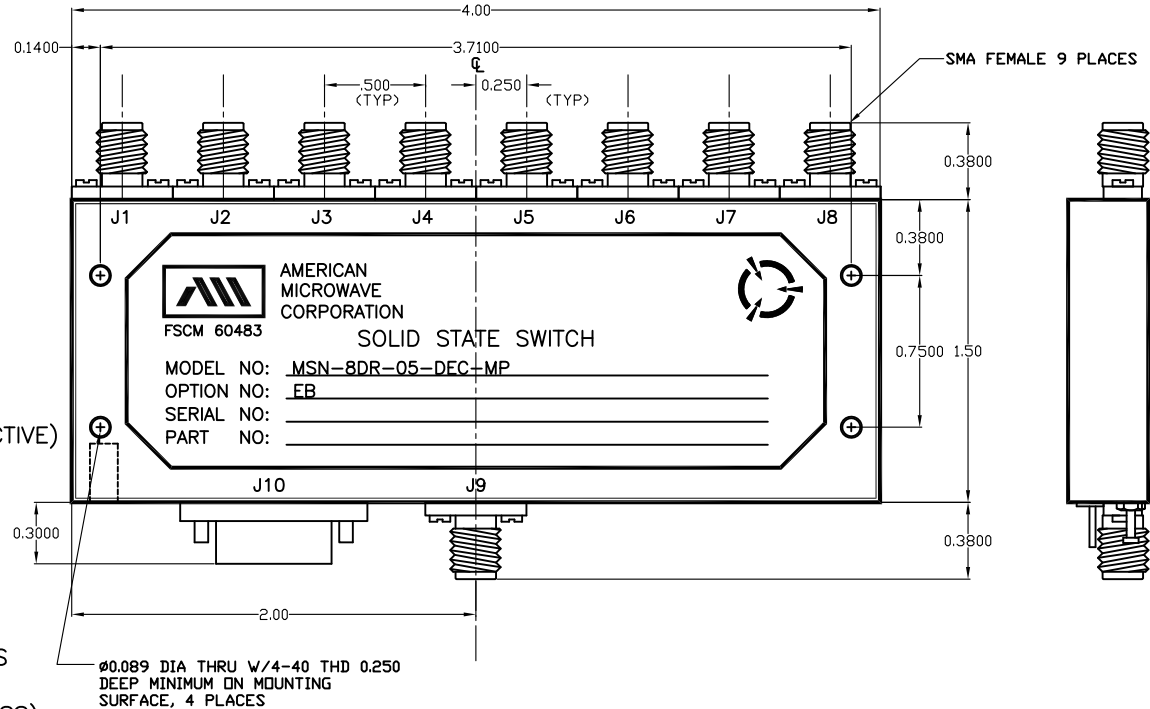
OPTIONS:

- INDEPENDANT CONTROL WITH SOLDER PIN STANDARD
- DEC-MP 3 BIT DECODER WITH MULTIPIN
- DEC-SP 3 BIT DECODER WITH SOLDER PIN
- MP-IND INDEPENDANT 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)
- 218 2 GHz TO 18 GHz (NO CHANGE IN INSERTION LOSS)
- 618 6 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
- EB ENABLE BIT

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

| PIN OUT TABLE | |
|---------------|----------|
| 3 BIT DECODER | |
| PIN NO. | FUNCTION |
| 1 | E1 |
| 2 | E2 |
| 3 | E3 |
| 4 | N/C |
| 5 | N/C |
| 6 | N/C |
| 7 | N/C |
| 8 | N/C |
| 9 | EB |
| 10 | N/C |
| 11 | N/C |
| 12 | GND |
| 13 | +V |
| 14 | -V |
| 15 | GND |

| 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 | EB |
| 10 | N/C |
| 11 | N/C |
| 12 | GND |
| 13 | +V |
| 14 | -V |
| 15 | GND |

| | | | |
|---------------------|----------|---|---------|
| PART NO. | | AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND | |
| APPROVALS | DATE | TITLE | |
| DRAWN <i>PRB</i> | 11/15/06 | PRODUCT FEATURE MSN-8DT-05-DEC-MP OPTION: EB ABSORPTIVE SOLID STATE SWITCH | |
| CHECKED | | SIZE | REV. |
| ISSUED | | A 60483 | B |
| | | FSCM NO. | DWG NO. |
| | | 100-3938-007 | |
| | | SCALE | SHEET |
| | | NONE | 1 OF 1 |