

## DESCRIPTION

AMC MODEL MSR-8DR-04-STANDARD OPTION: 818, HPR4W, 02MINUS15V IS A REFLECTIVE SINGLE POLE EIGHT THROW SWITCH DESIGNED TO OPERATE OVER THE 8 TO 18 GHz FREQUENCY RANGE WITH LOW INSERTION LOSS, HIGH ISOLATION, AND HIGH INPUT POWER.

## SPECIFICATIONS

- FREQUENCY RANGE: ..... 8 TO 18 GHz
- INSERTION LOSS: ..... 4.0 dB MAXIMUM
- ISOLATION: ..... 50 dB MINIMUM
- VSWR: ..... 2.0:1
- RISE TIME: ..... 10 nSec TYPICAL, 15 nSec MAXIMUM
- FALL TIME: ..... 10 nSec TYPICAL, 15 nSec MAXIMUM
- DELAY ON: ..... 75 nSec TYPICAL, 100 nSec MAXIMUM
- DELAY OFF: ..... 75 nSec TYPICAL, 100 nSec MAXIMUM
- POWER INPUT: ..... 4 WATTS CW MAX
- SURVIVAL POWER: ..... 10 WATTS PEAK 1 uSec
- CONTROL: ..... TTL LOGIC "0" = ON  
TTL LOGIC "1" = OFF
- POWER SUPPLY: ..... +5V @ 450 mA MAXIMUM  
-15V @ 150 mA MAXIMUM
- CONNECTORS:  
RF: ..... SMA FEMALE  
CONTROL: ..... SOLDER PIN

## OPTIONS:

- 818: ..... FREQUENCY RANGE 8 TO 18 GHz
- HPR4W: ..... HIGH INPUT POWER OF 4 WATTS
- 02MINUS15V: ..... -15 VDC NEGATIVE POWER SUPPLY

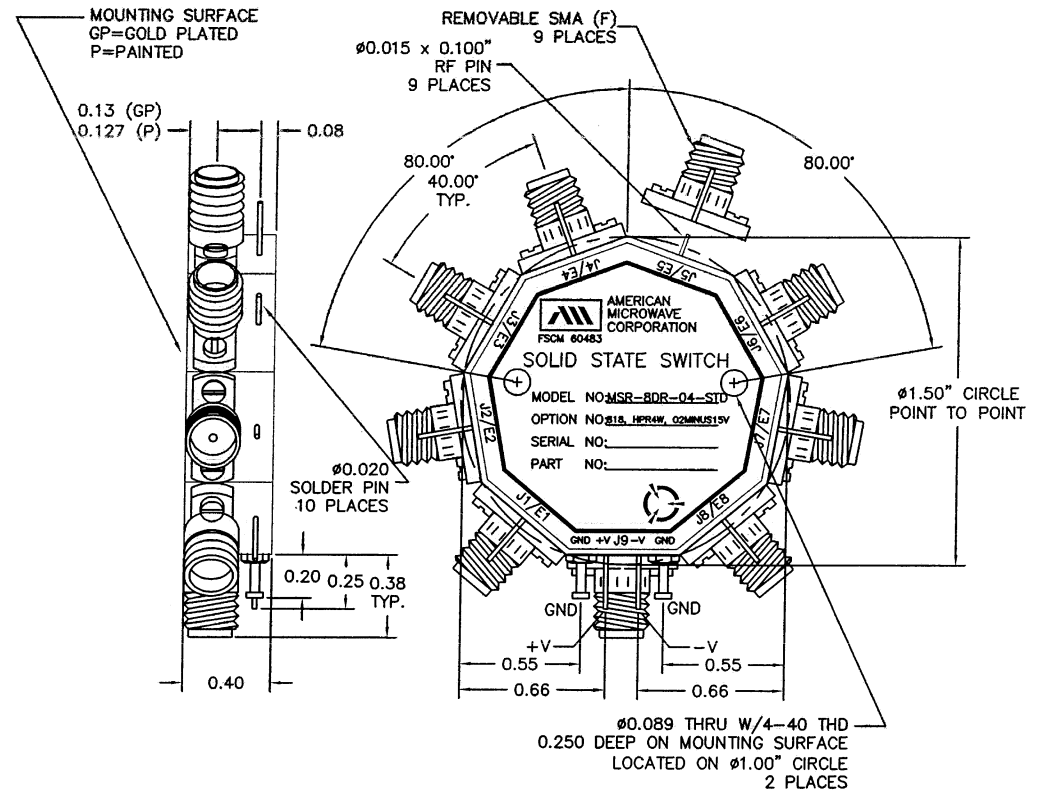
## ENVIRONMENTAL RATINGS:

- 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

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

| REVISIONS |      |                               |         |          |
|-----------|------|-------------------------------|---------|----------|
| ZONE      | REV. | DESCRIPTION                   | DATE    | APPROVED |
| -         | -    | ORIGINAL RELEASE JOB# 504118E | 6/17/05 |          |



## AMERICAN MICROWAVE CORPORATION

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ISO 9001:2000 CERTIFIED



| APPROVALS         |  | DATE    | TITLE  |          |          | REV.         |
|-------------------|--|---------|--|----------|----------|--------------|
| DRAWN <i>JKM</i>  |  | 6/17/05 | PRODUCT FEATURE<br>MSR-8DR-04-STANDARD<br>OPTION: 818, HPR4W, 02MINUS15V<br>8 - 18 GHz SP8T PIN DIODE SWITCH |          |          | -            |
| CHECKED <i>LC</i> |  | 6/21/05 | SIZE   | FSCM NO. | DWG NO.  |              |
| ISSUED            |  |         | A  | 60483    | 100-7460 |              |
|                   |  |         | SCALE  | N:S      |          | SHEET 1 OF 3 |

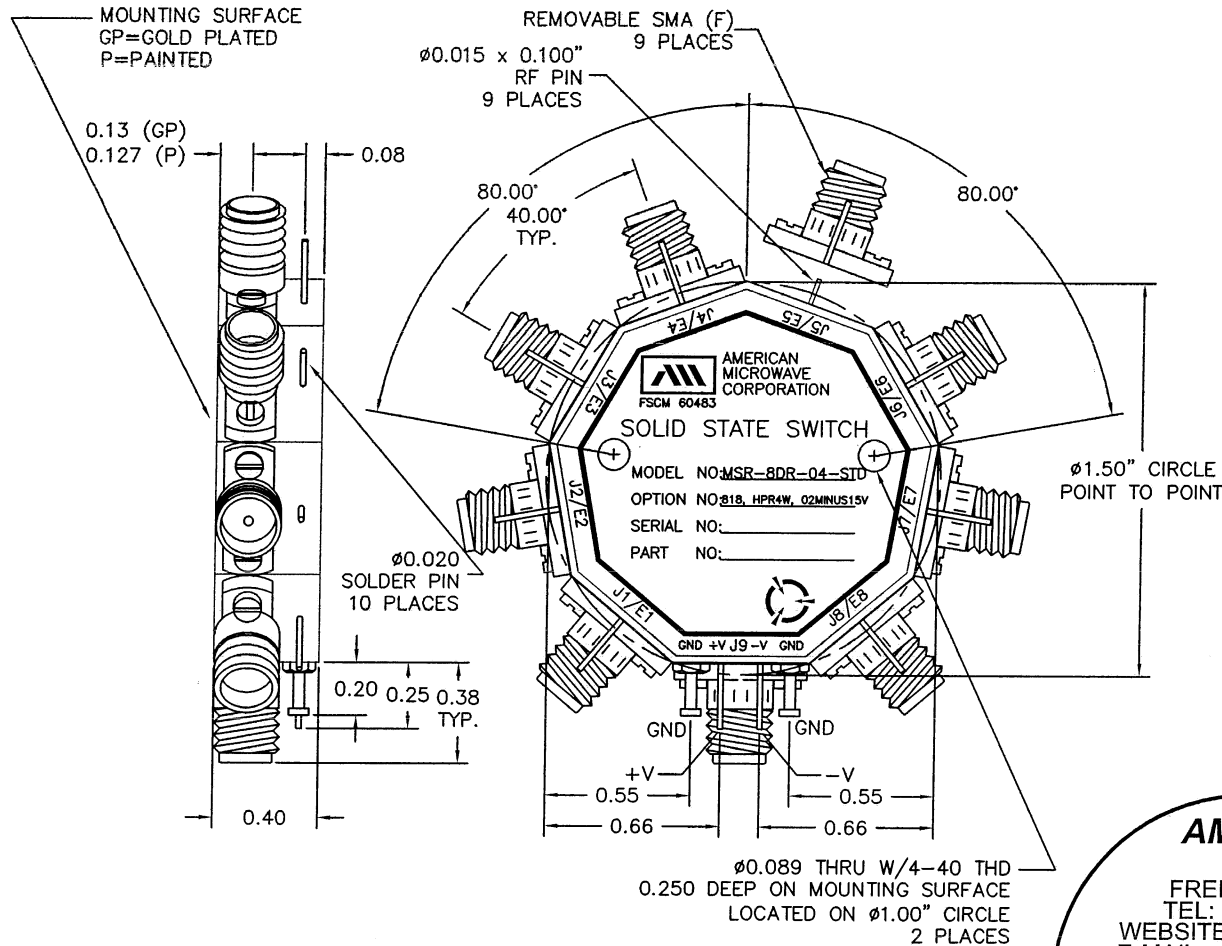
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# MECHANICAL OUTLINE

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



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| APPROVALS |     | DATE    | TITLE   |          |          |       |
|-----------|-----|---------|---|----------|----------|-------|
| DRAWN     | JRM | 6/17/05 | MECHANICAL OUTLINE<br>MSR-8DR-04-STANDARD<br>OPTION: 818, HPR4W, 02MINUS15V<br>8 - 18 GHz SP8T PIN DIODE SWITCH |          |          |       |
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| ISSUED    |     |         | A   | 60483    | 100-7460 | -     |
|           |     |         | SCALE   | N:S      |          | SHEET |
|           |     |         |   |          | 2 OF 3   |       |