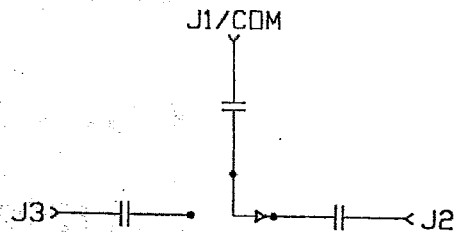


SPECIFICATIONS:

AMC MODEL NUMBER SWN-1118-2DR-H25002 IS A SINGLE POLE DOUBLE THROW, HIGH POWER 80 WATT AVERAGE, 2000 WATT PEAK SOLID STATE REFLECTIVE SWITCH WITH LOW INSERTION LOSS.

- FREQUENCY: 11.8 GHz TO 18.2 GHz
- INSERTION LOSS: 2.1 dB
- ISOLATION: 40 dB
- VSWR: ALL RF PORTS: 2.0:1
- SWITCHING SPEED: 1.0 us
- SWITCHING RATE: 200 KHz
- POWER INPUT: AVERAGE: 80 WATTS
PEAK: 2000 WATTS
- LOGIC: RS - 422
- CONTROL: SEE LOGIC TABLE
- POWER SUPPLY: +5V @ 300 mA MAXIMUM
-50V @ 20 mA MAXIMUM

BLOCK DIAGRAM:



LOGIC TABLE:

| OUTPUT | LOGIC + | LOGIC - | J2 SENSE | J3 SENSE |
|---------|---------|---------|----------|----------|
| J1 - J2 | 0 | 1 | 1 | 0 |
| J1 - J3 | 1 | 0 | 0 | 1 |

NOTES:

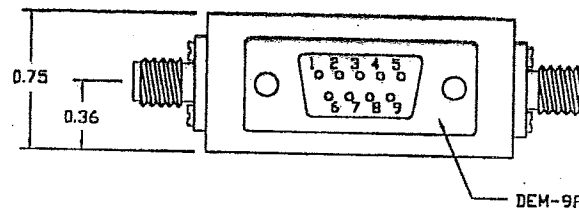
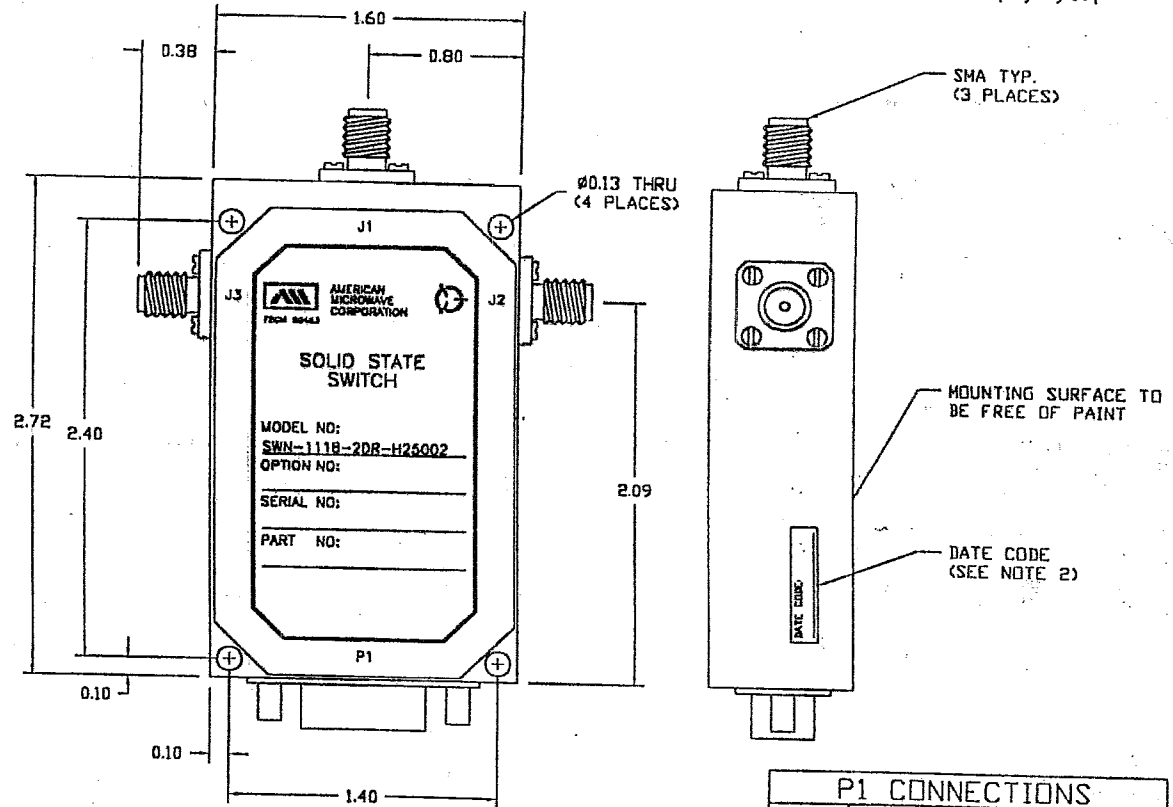
1. FINISH: RF HOUSING: BLACK PAINT
2. IDENTIFY IAW MIL-STD-130

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -20°C TO +60°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

| ZONE | | REV. | DESCRIPTION | DATE | APPROVED |
|------|--|------|-------------------------|----------|----------|
| | | - | ORIGINAL JOB# 110776E-2 | 10/10/01 | |



| P1 CONNECTIONS | |
|----------------|------------------|
| PIN | SIGNAL |
| 1 | +5V |
| 2 | -50V |
| 3 | GND |
| 4 | LOGIC + (RS-422) |
| 5 | LOGIC - (RS-422) |
| 6 | GND |
| 7 | J2 SENSE (TTL) |
| 8 | J3 SENSE (TTL) |
| 9 | GND |

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:

X.XX ±0.020
X.XXX ±0.010

| | | | |
|--------------------|----------|---|--------------|
| CONTRACT NO. | | AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND | |
| APPROVALS | DATE | TITLE | |
| DRAWN <i>KAB</i> | 10/10/01 | PRODUCT FEATURE | |
| CHECKED <i>WLP</i> | 1/23/02 | SWN-1118-2DR-H25002 | |
| ISSUED <i>SAJ</i> | 1/23/02 | SIZE | REV. |
| | | A | - |
| | | PSCM NO. | DWG NO. |
| | | 60483 | 100-6199 |
| | | SCALE N/S | SHEET 1 of 3 |