

DESCRIPTION

AMC MODEL DVAN-2040-60-8 IS A 2.0 TO 4.0 GHz 8 BIT DIGITALLY VARIABLE ATTENUATOR HAVING AN INSERTION LOSS OF 2.0 dB MAXIMUM AND A VSWR OF 2.0:1 MAXIMUM.

SPECIFICATIONS

- FREQUENCY RANGE: 2.0 TO 4.0 GHz
- INSERTION LOSS: 2.0 dB MAXIMUM
- VSWR: 2.0:1 MAXIMUM
- FLATNESS:
 - ① 10 dB: ± 0.5 dB MAXIMUM
 - ② 20 dB: ± 1.0 dB MAXIMUM
 - ③ 40 dB: ± 1.5 dB MAXIMUM
 - ④ 60 dB: ± 1.6 dB MAXIMUM
- ACCURACY:
 - 0-30 dB: ± 0.5 dB MAXIMUM
 - >30-50 dB: ± 1.0 dB MAXIMUM
 - >50-60 dB: ± 1.5 dB MAXIMUM
- MONOTICITY: GUARANTEED
- TEMPERATURE COEFFICIENT: ±0.025 dB/°C
- SWITCHING SPEED: 1 uSec MAXIMUM (SEE NOTE)
- RF POWER RATINGS: +20 dBm (OPERATING), +30 dBm (SURVIVAL)
- CONTROL: 8-BIT POSITIVE TRUE BINARY
- DC POWER SUPPLY: +12V @ 150 mA MAXIMUM
- CONNECTORS: REMOVABLE SMA FEMALE FOR RF
15-PIN MULTIPIN FOR POWER AND CONTROL

NOTE:

1. FOR 500ns SWITCHING SPEED, FLATNESS WILL INCREASE

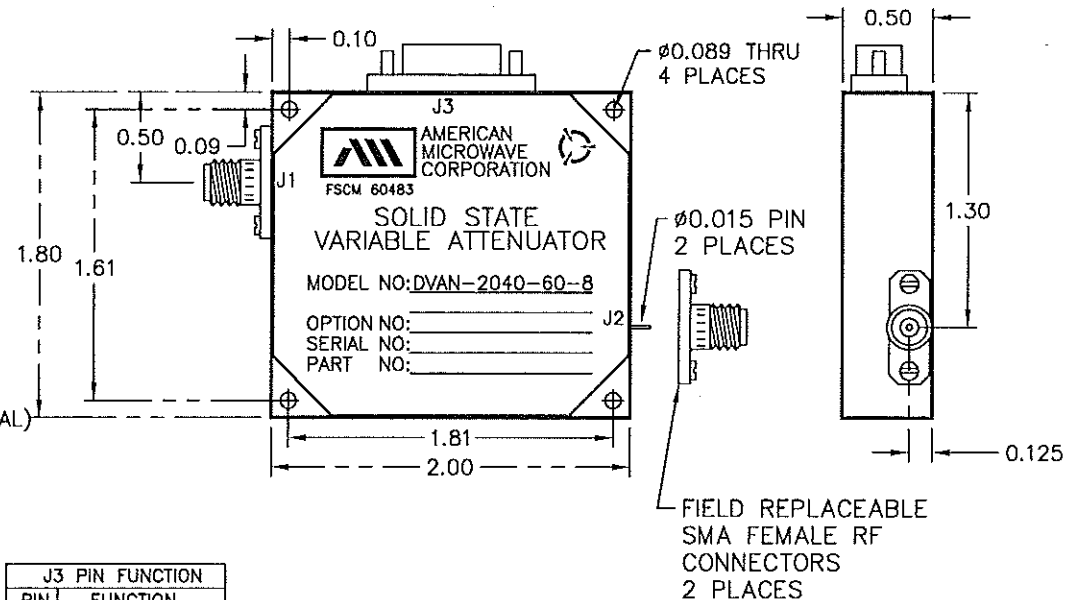
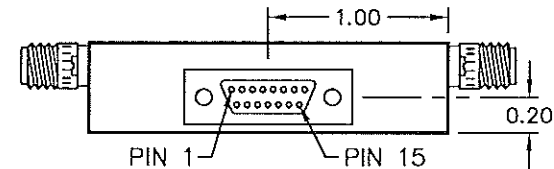
ENVIRONMENTAL RATINGS

- TEMPERATURE: -40°C TO +75°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.

| REVISIONS | | | | |
|-----------|------|------------------|--------|----------|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| | A | ORIGINAL RELEASE | 6/9/09 | |



| J3 PIN FUNCTION | |
|-----------------|---------------|
| PIN | FUNCTION |
| 1 | N/C |
| 2 | N/C |
| 3 | N/C |
| 4 | GND |
| 5 | 0.25 dB (LSB) |
| 6 | 0.5 dB |
| 7 | 1 dB |
| 8 | 2 dB |
| 9 | 4 dB |
| 10 | 8 dB |
| 11 | 16 dB |
| 12 | 32 dB (MSB) |
| 13 | +12V TO +15V |
| 14 | N/C |
| 15 | N/C |

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

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| APPROVALS | | DATE | TITLE | | |
|-----------|-------------------|---------|--|----------|--------------|
| DRAWN | <i>K. J. MUMS</i> | 6/9/09 | PRODUCT FEATURE DVAN-2040-60-8 2.0 - 4.0 DIGITALLY VARIABLE ATTENUATOR | | |
| CHECKED | <i>fw</i> | 6/10/09 | SIZE | FSCM NO. | DWG NO. |
| ISSUED | | | A | 60483 | 100-7855 |
| | | | SCALE | N:S | SHEET 1 OF 2 |