

DESCRIPTION

AMC MODEL DVAN-8018-80-12 IS A 8.0 TO 12.0 GHz 12 BIT DIGITALLY VARIABLE ATTENUATOR HAVING DYNAMIC RANGE OF 80 dB, AN INSERTION LOSS OF 5.5 dB MAXIMUM, AND A VSWR OF 2.0:1 MAXIMUM.

SPECIFICATIONS

- FREQUENCY RANGE:.....8.0 TO 12.0 GHz
- INSERTION LOSS:.....5.5 dB MAXIMUM
- VSWR:.....2.0:1 MAXIMUM
- FLATNESS:.....
 - @ 10 dB: ± 0.8 dB MAXIMUM
 - @ 20 dB: ± 1.1 dB MAXIMUM
 - @ 40 dB: ± 1.5 dB MAXIMUM
 - @ 60 dB: ± 1.6 dB MAXIMUM
 - @ 80 dB: ± 2.0 dB MAXIMUM
- ACCURACY:.....
 - 0-30 dB: ± 0.5 dB MAXIMUM
 - >30-50 dB: ± 1.0 dB MAXIMUM
 - >50-60 dB: ± 1.5 dB MAXIMUM
 - >60-80 dB: ± 2.0 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:.....12-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:

- FOR 500ns SWITCHING SPEED, FLATNESS WILL INCREASE
- OPTIONS:

812 = 8.0 - 12.0 GHz FREQUENCY RANGE
GP = GOLD PLATED MOUNTING SURFACE

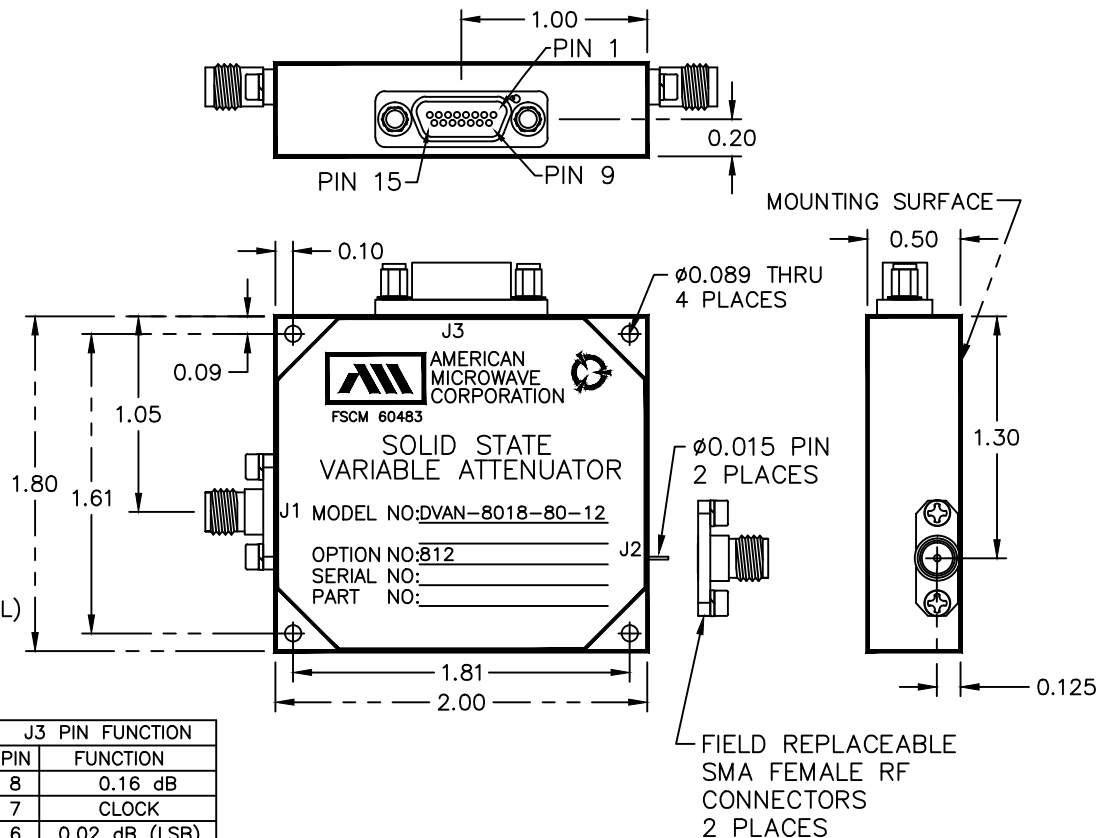
ENVIRONMENTAL RATINGS

- **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 | ER # 008-21 | 2/23/21 | RRA |
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| J3 PIN FUNCTION | |
|-----------------|---------------|
| PIN | FUNCTION |
| 8 | 0.16 dB |
| 7 | CLOCK |
| 6 | 0.02 dB (LSB) |
| 5 | GND |
| 4 | 0.31 dB |
| 3 | 0.625 dB |
| 2 | 1.25 dB |
| 1 | 2.5 dB |
| 15 | 5 dB |
| 14 | 10 dB |
| 13 | 20 dB |
| 12 | 40 dB (MSB) |
| 11 | +12V |
| 10 | 0.04 dB |
| 9 | 0.08 dB |

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

AMERICAN MICROWAVE CORPORATION

7309-A GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-4700 FAX: 301-662-4938
WEBSITE: www.americanmicrowavecorp.com
E-MAIL: sales@americanmicrowavecorp.com
ISO 9001:2015 CERTIFIED



| APPROVALS | | DATE | TITLE | | | |
|-----------|-----|--------|--|----------|--------------|------|
| DRAWN | RJW | 2/2/21 | PRODUCT FEATURE DVAN-8018-80-12 8.0 - 12.0 DIGITALLY VARIABLE ATTENUATOR | | | |
| ENG. | RRA | 2/2/21 | SIZE | FSCM NO. | DWG NO. | REV. |
| QAE | RRA | 2/2/21 | A | 60483 | 100-9222 | A |
| | | | SCALE | N:S | SHEET 1 OF 1 | |