

DESCRIPTION

AMC MODEL DVAT-0518-60-8-SK-193 IS A 0.5 TO 18 GHz VARIABLE ATTENUATOR/MODULATOR WITH 8 BIT BINARY TTL CONTROL OR OPTIONAL ANALOG VOLTAGE CONTROL.

SPECIFICATIONS

- FREQUENCY RANGE: 0.5 TO 18 GHz
- INSERTION LOSS: 4.0 dB MAXIMUM
- ATTENUATION FLATNESS:
 - @ 10 dB = ± 1.0 dB
 - @ 20 dB = ± 1.5 dB
 - @ 40 dB = ± 3.0 dB
 - @ 60 dB = ± 5.0 dB
- ATTENUATION ACCURACY:
 - 0-30 dB = ± 1.0 dB
 - >30-50 dB = ± 1.3 dB
 - >50-60 dB = ± 1.5 dB
- MONOTONICITY: GUARANTEED
- TEMPERATURE VARIATION:
 - ± 2.5dB -10 to 85 deg C Typ
 - ± 3.5dB -40 to 95 deg C Typ
- SWITCHING TIME: 5 micro sec MAXIMUM
- SMALL SIGNAL BANDWIDTH: 100 kHz Typ (6dB with ±3 dB sinewave)
- LARGE SIGNAL BANDWIDTH: 50 kHz Typ (30dB with ±30 dB sinewave)
- RETURN LOSS: -12 dB TYP -8.5 dB MAX
- POWER RATING: +20 dBm (see note 1)
- DIGITAL CONTROL: 8 BIT TTL
 - 0.25 dB MINIMUM ATTENUATION STEP
- ANALOG CONTROL option: 0-6V ANALOG VOLTAGE, 10dB/VOLT
- POWER SUPPLY: +12V @ 150 mA MAXIMUM
- CONNECTORS
- RF INPUT/OUTPUT: FIELD REPLACEABLE SMA (FEMALE)
- POWER AND CONTROLS: 15 PIN MICRO-D FEMALE MATING CONNECTOR (MALE) FURNISHED
- SIZE: 2.00" x 1.81" x 0.50"

OPTIONS:

- A05 +15V POWER SUPPLY
- LATCH EN LATCH ENABLED

ENVIRONMENTAL RATINGS

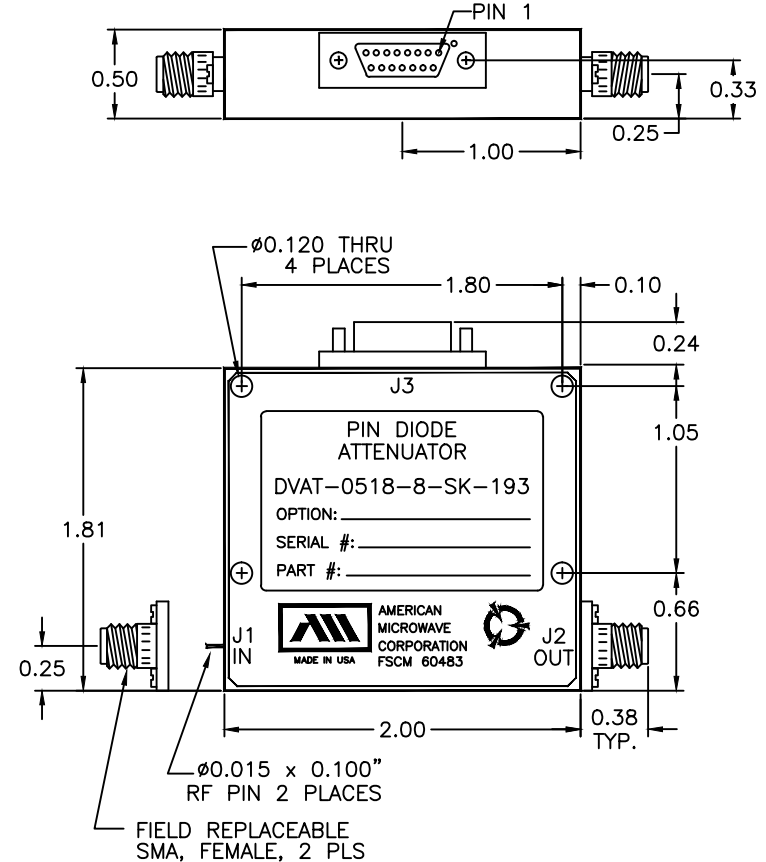
- TEMPERATURE -40°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY MIL-STD-202F, METHOD 103B COND. B
- SHOCK MIL-STD-202F, METHOD 213B COND. B
- VIBRATION MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE MIL-STD-202F, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
 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.

| STANDARD PIN NUMBERING | |
|------------------------|--------------------|
| PIN | FUNCTION |
| 8 | GND |
| 7 | Option: Latch En |
| 6 | Option: Analog I/P |
| 5 | GND |
| 4 | 0.25 dB (LSB) |
| 3 | 0.5 dB |
| 2 | 1 dB |
| 1 | 2 dB |
| 15 | 4 dB |
| 14 | 8 dB |
| 13 | 16 dB |
| 12 | 32 dB (MSB) |
| 11 | +12VDC |
| 10 | Not Used |
| 9 | Not Used |


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

| REVISIONS | | | | |
|-----------|------|------------------|----------|----------|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| | - | Original Release | 08/03/07 | RRA |
| | A | SEE ECR# 09-004 | 1/21/09 | RRA |
| | B | SEE ECR# 09-025 | 6/3/09 | RRA |
| | C | ECN# 19-063 | 8/14/19 | RRA |



NOTES

1. Low Frequency reduced power performance refer to test report.
2. Negative supply only for compatability with previous models.
3. Negative supply may be -V, or Ground or Open Circuit.
4. SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE.
5. SPECIFICATIONS SUBJECT TO CHANGE OR REVISION.

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|  AMERICAN MICROWAVE CORPORATION FREDERICK, MARYLAND | | ISO 9001:2015 CERTIFIED | | | |
| | | TITLE PRODUCT FEATURE DVAT-0518-60-8-SK-193 OPTION: 0.5-18 GHz, VARIABLE ATTENUATOR | | | |
| APPROVALS | DATE | SIZE | FSCM NO. | DWG NO. | REV. |
| DRAWN SK | 08/03/07 | A | 60483 | 100-D001-000 | C |
| ENG. RRA | 08/05/19 | SCALE N:S | | SHEET | 1 OF 1 |
| QAE RRA | 08/05/19 | | | | |