

DESCRIPTION

AMC MODEL DVAT-0518-60-8-SK-196 OPTION 1014, A04-25.5 IS A 10.7 TO 14.5GHz VARIABLE ATTENUATOR/MODULATOR.

SPECIFICATIONS

- FREQUENCY RANGE: 10.7 TO 14.5 GHz
- INSERTION LOSS: 4.5 dB MAXIMUM
- ATTENUATION FLATNESS:
 - @ 10 dB = ± 1.0 dB
 - @ 20 dB = ± 1.5 dB
 - @ 25.5 dB = ± 3.0 dB
- ATTENUATION ACCURACY: 0-25.5 dB = ± 1.0 dB
- MONOTONICITY: GUARANTEED
- TEMPERATURE VARIATION:
 - ± 2.5dB -10 to 85 deg C Typ
 - ± 3.5dB -40 to 95 deg C Typ
- SWITCHING TIME: 1.5 micro sec MAXIMUM
- SMALL SIGNAL BANDWIDTH: 150 kHz Typ (6dB with ±3 dB sinewave)
- LARGE SIGNAL BANDWIDTH: 75 kHz Typ (30dB with ±30 dB sinewave)
- RETURN LOSS: -8.5 dB MAX
- POWER RATING: +20 dBm (see note 1)
- DIGITAL CONTROL: 8 BIT TTL
- 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:

- 1014 10.7 - 14.5GHz
- A04-25.5 25.5dB RANGE IN 0.1dB STEPS

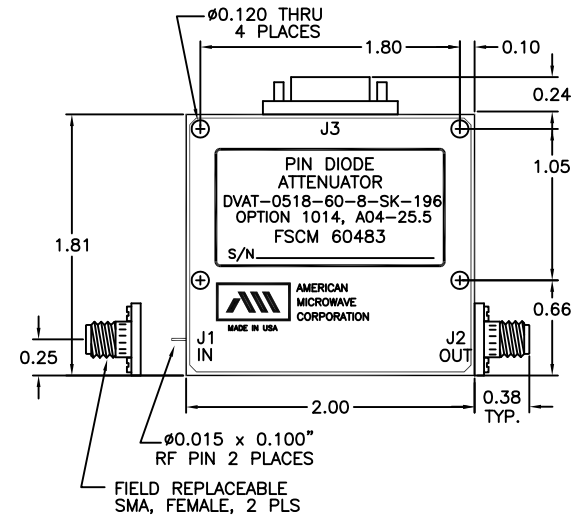
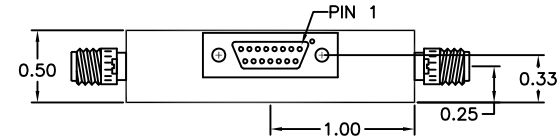
ENVIRONMENTAL RATINGS

- **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: THE ABOVE SPECIFICATION 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	08/08/07	



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.

STANDARD PIN NUMBERING	
PIN	FUNCTION
8	GND
7	Option: Latch En
6	Option: Analog I/P
5	GND
4	0.1 dB (LSB)
3	0.2 dB
2	0.4 dB
1	0.8 dB
15	1.6 dB
14	3.2 dB
13	6.4 dB
12	12.8 dB (MSB)
11	+12VDC
10	Not Used
9	Not Used

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:

X.XX ±0.010
X.XXX ±0.005

AMERICAN MICROWAVE CORPORATION

7311-G GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-4700 FAX: 301-662-4938
WEBSITE: www.americamicrowavecorp.com
E-MAIL: sales@americamicrowavecorp.com
ISO 9001:2000 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>JK</i>		08/08/07	PRODUCT FEATURE DVAT-0518-60-8-SK-196 OPTION: 1014, A04.25.5			
CHECKED			SIZE A	FSCM NO. 60483	DWG NO. 100-D001-004	REV. A
ISSUED			SCALE N:S		SHEET 1 OF 1	