

## DESCRIPTION

AMC MODEL DVAT-0518-60-8-SK-193 OPTION 30M6 IS A 30 MHz TO 6 GHz VARIABLE ATTENUATOR/MODULATOR WITH 8 BIT BINARY TTL CONTROL OR OPTIONAL ANALOG VOLTAGE CONTROL.

## SPECIFICATIONS

- FREQUENCY RANGE: ..... 30MHz TO 6 GHz
- INSERTION LOSS: ..... 4.0 dB MAXIMUM
- ATTENUATION FLATNESS: .....
  - ◎ 10 dB = ± 0.9 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: ..... 10 micro sec
- RETURN LOSS: ..... -12 dB TYP -8.5 dB MAX
- OPERATING POWER ..... +0 dBm or below
- 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 OR +15V @ 150 mA MAXIMUM
- NEGATIVE SUPPLY IS OPTIONAL: ..... 0 TO -15V @ 2 mA MAXIMUM (may be omitted)
- 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

- 30M6 ..... 30MHz TO 6 GHz FREQUENCY RANGE

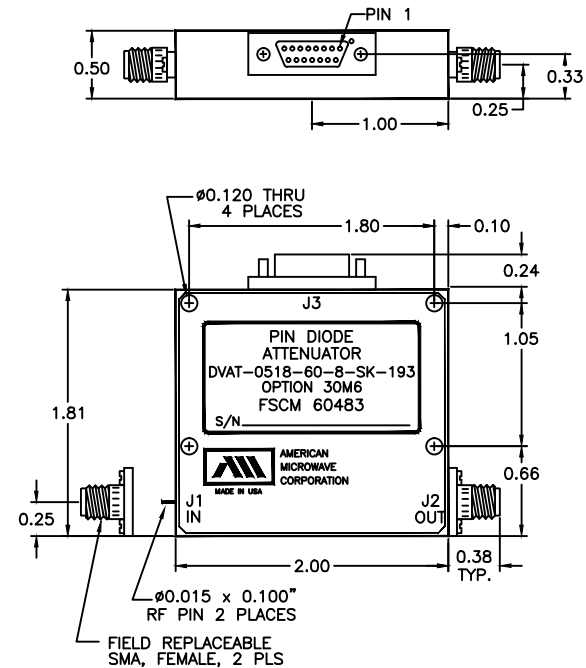
## ENVIRONMENTAL RATINGS \*

- **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

\* Units are designed to meet Environmental ratings but not tested. If Environmental Testing is required, please contact Sales Department.

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX ±0.010  
X.XXX ±0.005

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE, JOB# S009000149	5/26/09	
	B	SEE ECN # 16-059	9/14/16	



## 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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ISO 9001:2008 CERTIFIED



APPROVALS		DATE	TITLE			REV.
DRAWN <i>RRA</i>		5/26/09	PRODUCT FEATURE DVAT-0518-60-8-SK-193 OPTION: 30M6 30 MHz - 6 GHz, VARIABLE ATTENUATOR			B
CHECKED			SIZE	FSCM NO.	DWG NO.	
ISSUED			A	60483	100-7852	
			SCALE	N:S	SHEET	1 OF 4