

DESCRIPTION

AMC MODEL DVAT-0518-60-8-SK-193 OPTION 0218, PLUS15V, B02 IS A 0.5 TO 18GHZ VARIABLE ATTENUATOR/MODULATOR WITH 8 BIT BINARY TTL CONTROL OR OPTIONAL ANALOG VOLTAGE CONTROL.

SPECIFICATIONS

- FREQUENCY RANGE: 0.2 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: +15V @ 150 mA MAXIMUM
- CONNECTORS
- RF INPUT/OUTPUT: FIELD REPLACEABLE SMA (FEMALE)
- POWER AND CONTROLS: 15 PIN MICRO-D FEMALE MATING CONNECTOR (MALE) FURNISHED

OPTIONS:

- 0218 0.2 - 18GHz
- PLUS 15V +15V POWER SUPPLY
- B02 -15V POWER SUPPLY

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.

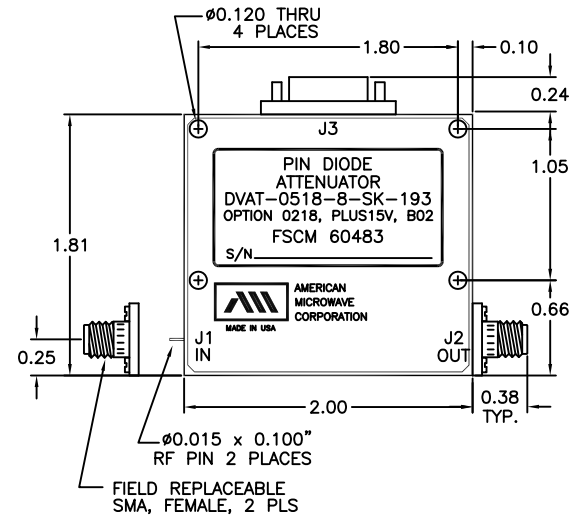
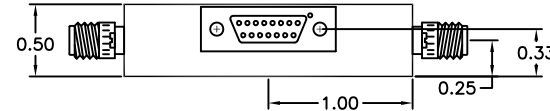
* Units are designed to meet Environmental ratings but not tested. If Environmental Testing is required, please contact Sales Department.

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 ±0.010
X.XXX ±0.005

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	SEE ER# 054-11	8/22/11	RA



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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APPROVALS		DATE	TITLE			REV.
DRAWN <i>K JPMMS</i>		8/22/11	PRODUCT FEATURE DVAT-0518-60-8-SK-193 OPTION 0218, PLUS15V, B02			A
ENG <i>RA</i>		8/22/11	SIZE	FSCM NO.	DWG NO.	
QAE <i>K JPMMS</i>		8/22/11	A	60483	100-8124	
			SCALE	N:S		SHEET 1 OF 1