

DESCRIPTION

AMC MODEL AGTN-0320-60DD OPTION 0218, A05, DA15P IS A DIGITALLY CONTROLLED VARIABLE ATTENUATOR DESIGNED TO OPERATE BETWEEN THE 0.2 TO 18GHz RANGE.

SPECIFICATIONS

- FREQUENCY RANGE: 0.2 TO 18 GHz
- INSERTION LOSS: 4.5 dB MAXIMUM
- ATTENUATION FLATNESS: (FROM 0.2 - 18GHz)
 - @ 10 dB = ± 1.0 dB ±0.1dB @ 20MHz BW MAX.
 - @ 20 dB = ± 1.5 dB ±0.15dB @ 20MHz BW MAX.
 - @ 30 dB = ± 2.5 dB ±0.2dB @ 20MHz BW MAX.
 - @ 40 dB = ± 3.0 dB ±0.3dB @ 20MHz BW MAX.
 - @ 50 dB = ± 4.0 dB ±0.4dB @ 20MHz BW MAX.
 - @ 60 dB = ± 5.0 dB ±0.5dB @ 20MHz BW MAX.
- 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: 1.5 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 D MALE (DA15P)
MATING CONNECTOR (FEMALE) FURNISHED

OPTIONS:

- 0218: 0.2 TO 18 GHz OPTIMIZED
- A05: +15V POWER SUPPLY
- DA15P: 15 PIN D MALE MULTIPIN

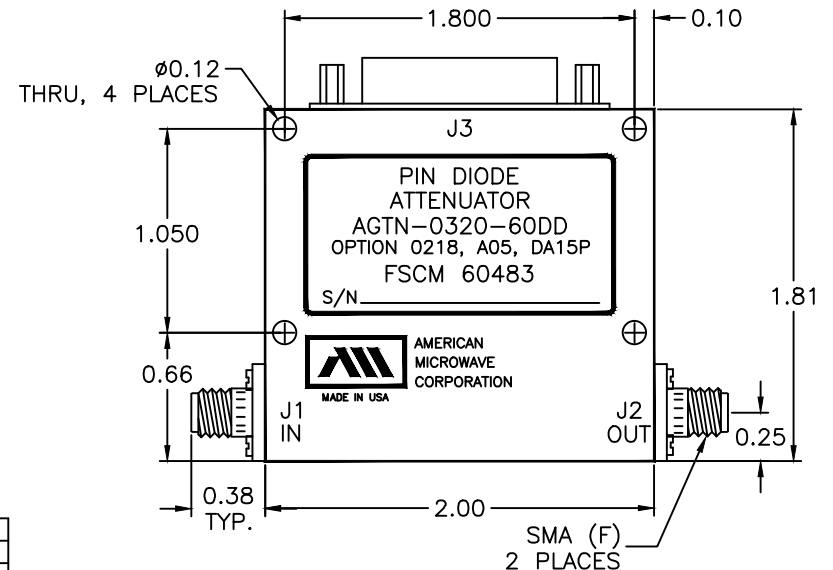
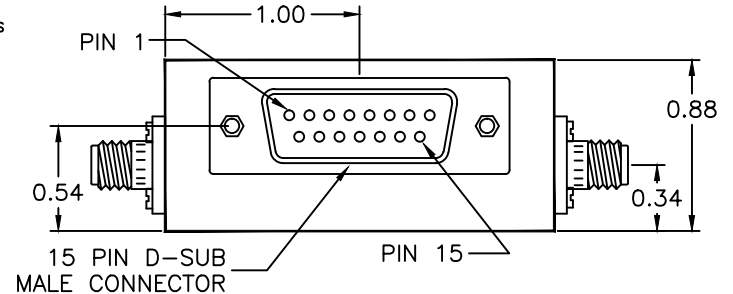
ENVIRONMENTAL RATINGS:

- 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.

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



8 BIT TRUE BINARY LOGIC	
J3 PIN FUNCTIONS	
PIN NO.	FUNCTIONS.
1	GND
2	* N/C
3	* N/C
4	GND
5	0.25 dB (LSB)
6	0.5 dB
7	1.0 dB
8	2.0 dB
9	4.0 dB
10	8.0 dB
11	16.0 dB
12	32.0 dB (MSB)
13	+15V
14	*N/C
15	*N/C

* N/C = NO CONNECTION

REVISIONS				
ECR	REV.	DESCRIPTION	DATE	APPROVED
	A	SEE ER# 061-11	9/22/11	RA
	B	SEE ECN# 11-092	9/30/11	RA
	C	SEE ECN# 12-003	1/20/12	RA

AMERICAN MICROWAVE CORPORATION

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



APPROVALS		DATE	TITLE		
DRAWN	<i>K. J. MMS</i>	9/22/11	PRODUCT FEATURE AGTN-0320-60DD OPTION 0218, A05, DA15P		
ENG	<i>RA</i>	9/22/11	SIZE	FSCM NO.	DWG NO.
QAC	<i>K. J. MMS</i>	9/22/11	A	60483	100-8134
			SCALE	N:S	SHEET 1 OF 1
					REV. C