

DESCRIPTION

AMC MODEL AGTN-0320-60DD-100 OPTION 0218, A05 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: @ 10 dB = ± 1.0 dB
 @ 20 dB = ± 1.5 dB
 @ 30 dB = ± 2.5 dB
 @ 40 dB = ± 3.0 dB
 @ 50 dB = ± 4.0 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: 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 (MALE)
- POWER AND CONTROLS: 15 PIN MICRO-D MALE
 MATING CONNECTOR (FEMALE) FURNISHED

OPTIONS:

- 0218: 0.2 TO 18 GHz OPTIMIZED
- A05: ±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

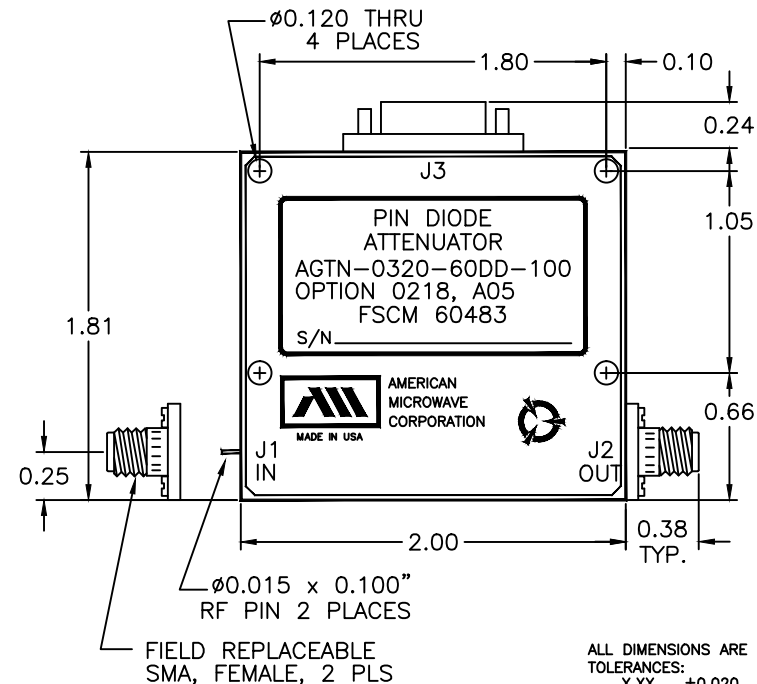
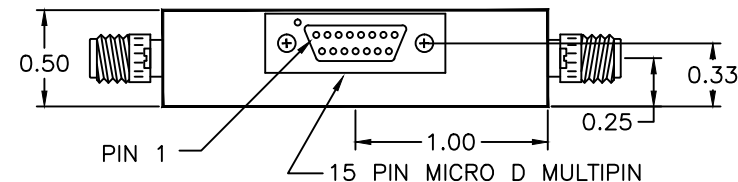
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
 NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

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# 059-11	9/14/11	RA
	B	SEE ECN# 11-087	9/20/11	RA



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

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 ISO 9001:2015 CERTIFIED



APPROVALS		DATE	TITLE			REV.
DRAWN K PPMMS		9/14/11	PRODUCT FEATURE AGTN-0320-60DD-100 OPTION 0218, A05			B
ENG RA		9/14/11	SIZE A	FSCM NO. 60483	DWG NO. 100-8131	
QAE K PPMMS		9/14/11	SCALE N:S	SHEET 1 OF 1		