REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	9/5/97	
	B	SEE ECR# 12-003	1/20/12	RA

DESCRIPTION

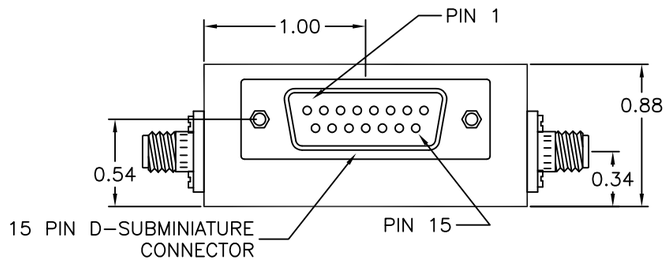
AMC MODEL AGT-2018-60DD IS A BROAD BAND VARIABLE ATTENUATOR/ MODULATOR, CONTROLLED BY 8 BIT POSITIVE TRUE BINARY LOGIC.

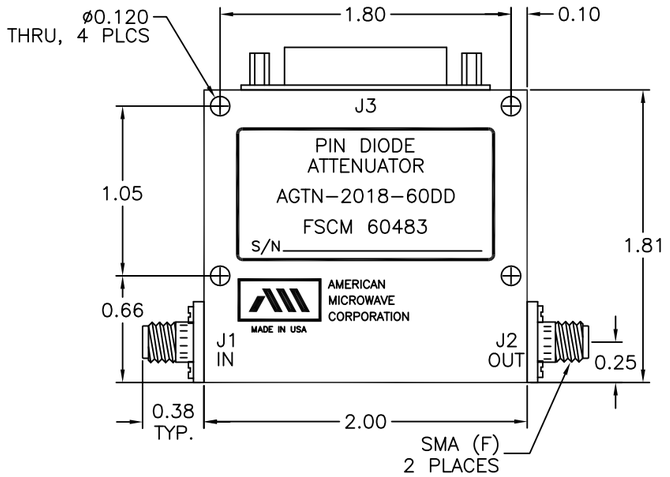
SPECIFICATIONS

- FREQUENCY RANGE ..... 2.0 – 18.0 GHz MINIMUM
- INSERTION LOSS ..... 4.5 dB MAXIMUM
- ATTENUATION FLATNESS (± dB MAXIMUM) ..... 0-30 dB ±1.0 dB MAXIMUM; 30-40 dB ±2.0 dB MAXIMUM; 40-50 dB ±3.0 dB MAXIMUM; 50-60 dB ±5.5 dB MAXIMUM
- ATTENUATION ACCURACY ..... 0-10 dB ±2.0 dB MAXIMUM; 10-20 dB ±1.0 dB MAXIMUM; 20-40 dB ±1.5 dB MAXIMUM; 40-60 dB ±2.0 dB MAXIMUM
- SWITCHING TIME ..... 1 uSEC MAXIMUM
- VSWR ..... 2.2:1 MAXIMUM
- RF POWER RATINGS
  - OPERATING ..... +20 dBm CW MAXIMUM; +10 dBm (0.3GHz OR BELOW)
  - SURVIVAL ..... +30 dBm CW MAXIMUM; +27 dBm (0.3GHz OR BELOW)
- CONTROL ..... 8 BIT TRUE BINARY LOGIC
- POWER SUPPLY ..... +12VDC @ 250mA MAXIMUM; -12VDC @ 50mA MAXIMUM
- CONNECTORS
  - RF INPUT/OUTPUT ..... SMA FEMALE
  - POWER AND CONTROLS ..... 15 PIN D-SUBMINIATURE (MALE) MATING CONNECTOR FURNISHED
- SIZE ..... 2.00" x 1.81" x 0.88"

AVAILABLE OPTIONS

- A01 ..... TWO SMA MALE RF CONNECTORS
- A02 ..... J1 SMA MALE, J2 SMA FEMALE
- A03 ..... MOUNTING SURFACE UNPAINTED
- A04 ..... ANALOG CONTROLLED UNIT-10dB/VOLT PIN 2 IS USED AS CONTROL (OTHER CONTROL VOLTAGES AVAILABLE). FOR SOLDER PIN UNITS REFER TO AGT-2018-60D-100
- A05 ..... ±15 VDC POWER SUPPLY
- A06 ..... 0 TO 30 dB RANGE
  - FLATNESS: 0-15 dB ±0.5 dB MAXIMUM; 15-20 dB ±1.0 dB MAXIMUM; 20-25 dB ±1.5 dB MAXIMUM; 25-30 dB ±2.0 dB MAXIMUM
  - ACCURACY: 0-10 dB ±2.0 dB MAXIMUM; 10-20 dB ±1.0 dB MAXIMUM; 20-30 dB ±1.5 dB MAXIMUM
- A08 ..... FREQUENCY BAND OF 2 – 8GHz
- A09 ..... 9 BIT TRUE BINARY LOGIC
- A10 ..... 10 BIT TRUE BINARY LOGIC
- A11 ..... 11 BIT TRUE BINARY LOGIC
- A12 ..... 12 BIT TRUE BINARY LOGIC
- SCS ..... SPECIAL CUSTOMER SPECIFICATION
- 0518 ..... 0.5 – 18GHz FREQUENCY RANGE





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
13	+V
14	-V
15	N/C *

* N/C = NO CONNECTION

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
WEIGHT: APPROX. 4.0 oz.

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7311-G GROVE ROAD
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ISO 9001:2000 CERTIFIED

APPROVALS	DATE
DRAWN WSP	10/5/97
ENG RA	10/5/97
QAE	

TITLE: PRODUCT FEATURE AGTN-2018-60DD

SIZE	FSCM NO.	DWG NO.	REV.
A	60483	100-4224	B

SCALE N:S SHEET 1 OF 1