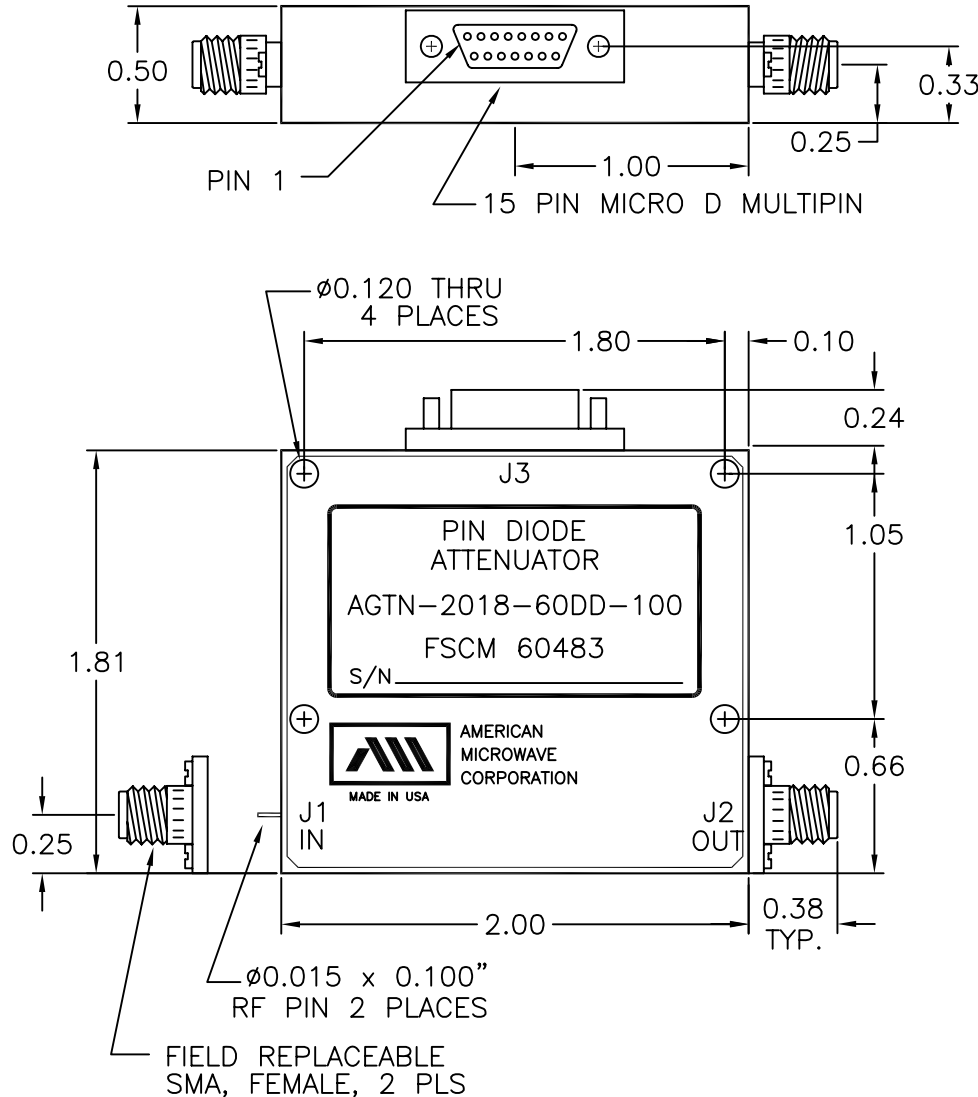


DESCRIPTION

AMC MODEL AGTN-2018-60DD-100 IS A BROAD BAND VARIABLE ATTENUATOR / MODULATOR CONTROLLED BY 8 BIT POSITIVE TRUE BINARY LOGIC.

REVISIONS				
ECR	REV.	DESCRIPTION	DATE	APPROVED
07-098	-	ORIGINAL RELEASE	07/30/07	RA



MECHANICAL OUTLINE

8 BIT TRUE BINARY LOGIC J3 PIN FUNCTIONS	
PIN NO.	FUNCTIONS.
1	SPARE
2	LE
3	CTLV
4	GND
5	0.25 dB
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	SPARE

AMERICAN MICROWAVE CORPORATION

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ISO 9001:2000 CERTIFIED



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

APPROVALS		DATE	TITLE		
DRAWN <i>PRB</i>		07/30/07	MECHANICAL OUTLINE AGTN-2018-60DD-100		
CHECKED <i>RA</i>		08/02/07	2-18 GHz FREQUENCY RANGE		
RE-DRAWN			SIZE A	FSCM NO. 60483	DWG NO. 100-A004-002
			SCALE N:S	SHEET 2 OF 4	

DESCRIPTION

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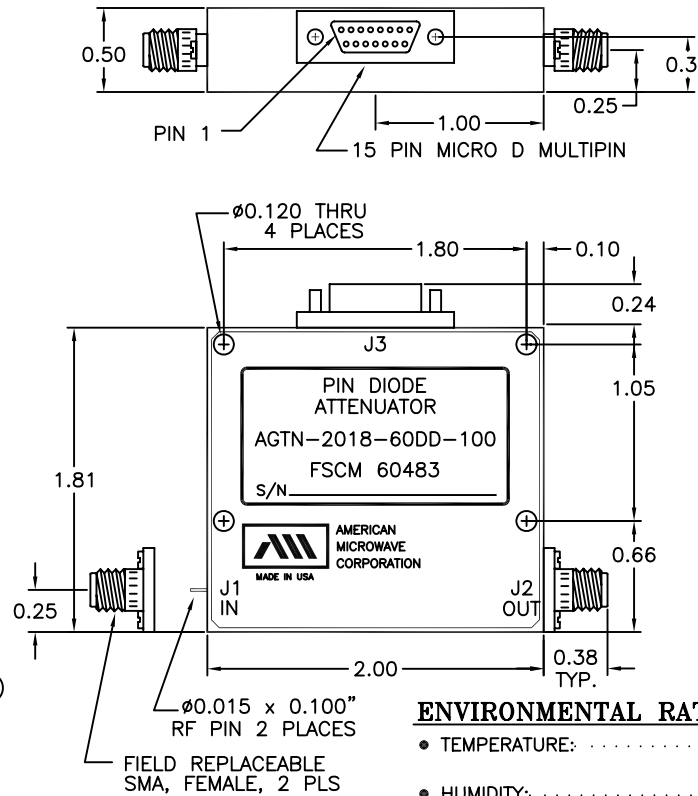
REVISIONS				
ECR	REV.	DESCRIPTION	DATE	APPROVED
07-098	-	ORIGINAL RELEASE	07/30/07	Rd

SPECIFICATIONS

- FREQUENCY RANGE: 2.0 TO 18.0 GHz MINIMUM
- INSERTION LOSS: 4.5 dB MAXIMUM
- ATTENUATION FLATNESS: 0-30 dB ± 1.0 dB MAXIMUM
30-40 dB ± 2.0 dB MAXIMUM
(± 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(500 Nsec TYPICAL)
- VSWR: 2.2:1 MAXIMUM
- RF POWER RATINGS:
OPERATING: +20 dBm CW MAXIMUM
+10 dBm (0.3 GHz OR BELOW)
SURVIVAL: +30 dBm CW MAXIMUM
+27 dBm (0.3 GHz OR BELOW)
- CONTROL: 8 BIT TRUE BINARY LOGIC
- POWER SUPPLY: +12 VDC @ 250 mA MAXIMUM
-12 VDC @ 50 mA MAXIMUM
- CONNECTORS:
RF INPUT/OUTPUT: SMA FEMALE
POWER AND CONTROLS: 15 PIN MICRO-D SUBMINIATURE (MALE, 15PSP)
MATING CONNECTOR FURNISHED
- SIZE: 2.00" x 1.81" x 0.50"

OPTIONS:

- A01 TWO SMA MALE RF CONNECTORS
- A02 J1 SMA MALE, J2 SMA FEMALE
- A03 BLIND MATE CONNECTORS
- A04 ANALOG CONTROLLED UNIT OF 10dB/VOLT. PIN 2 IS USED AS CONTROL (OTHER CONTROL VOLTAGES AVAILABLE). FOR SOLDER PIN UNITS REFER TO DATA SHEET AGTN-2018-60D-100.
- A05 TWO SMA MALE RF CONNECTORS
- A06: 0-30dB RANGE
FLATNESS: 0-15 dB ± 0.5 dB MAXIMUM ACCURACY: 0-10 dB ± 2.0 dB MAXIMUM
15-20 dB ± 1.0 dB MAXIMUM 10-20 dB ± 1.0 dB MAXIMUM
20-25 dB ± 1.5 dB MAXIMUM 20-30 dB ± 1.5 dB MAXIMUM
25-30 dB ± 2.0 dB MAXIMUM
- A07: EXTENDED FREQUENCY RANGE UNITS AND OPTIONS
200M18 OPTION: EXTENDED BANDWIDTH (200 MHz - 18 GHz)
300M18 OPTION: EXTENDED BANDWIDTH (300 MHz - 18 GHz)
10M18 OPTION: EXTENDED BANDWIDTH (10 MHz - 18 GHz) WITH SLOWER SPEED
REFER TO DATA SHEETS AGT-2018-60DD-100 (DIGITAL CONTROL)
OR AGT-2018-60D-100 (SOLDER PIN ANALOG CONTROLLED).
219 OPTION: EXTENDED BANDWIDTH (2 GHz - 19 GHz)
- A08 FREQUENCY BAND OF 2-8 GHz
- A09 9 BIT TRUE BINARY LOGIC
- A10 10 BIT TRUE BINARY LOGIC
- A11 11 BIT TRUE BINARY LOGIC
- A12 12 BIT TRUE BINARY LOGIC
- A13 FREQUENCY BAND OF 10MHz - 2 GHz REFER TO DATA SHEET
AGT-2000-60DD-100 (SLIM LINE, DIGITAL CONTROL VERSION),
OR AGT-2000-60D-100 (SOLDER PIN ANALOG CONTROLLED).
- A14 MOUNTING SURFACE UNPAINTED



8 BIT TRUE BINARY LOGIC	
J3 PIN FUNCTIONS	
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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	SPARE

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

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -55°C TO +125°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

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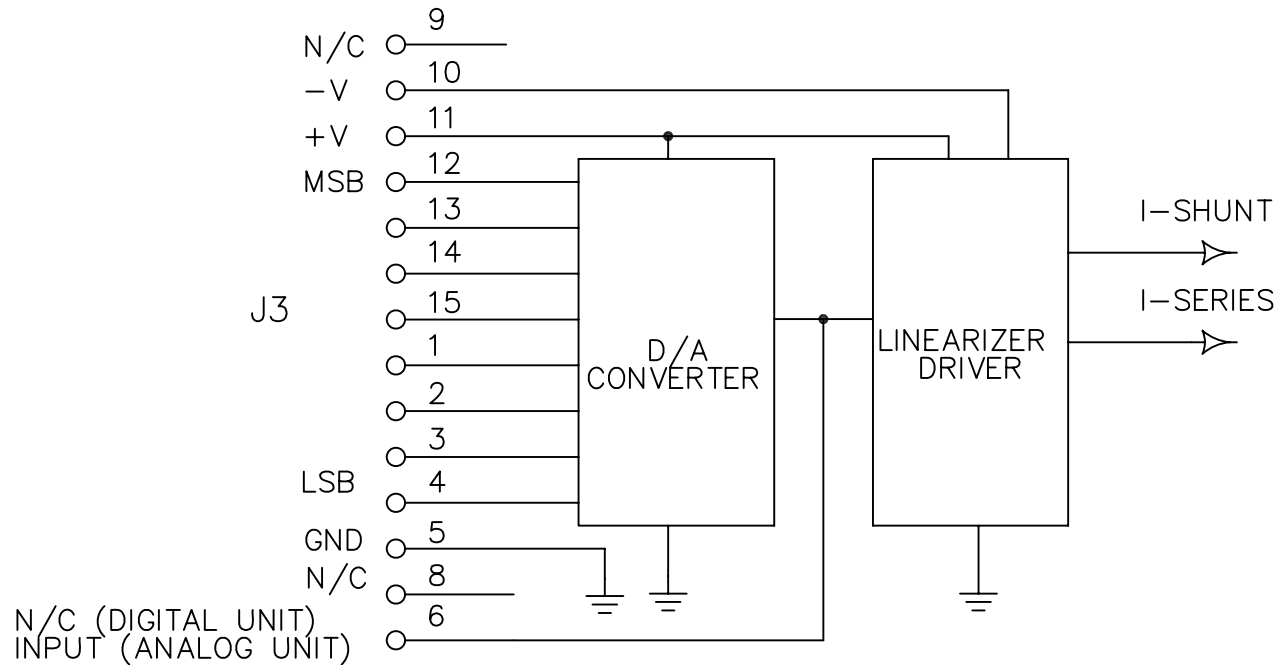
APPROVALS		DATE	TITLE			
DRAWN <i>PRB</i>		07/30/07	PRODUCT FEATURE AGTN-2018-60DD-100			
CHECKED <i>Rd</i>		08/02/07	2-18 GHz FREQUENCY RANGE			
RE-DRAWN			SIZE	FSCM NO.	DWG NO.	REV.
			A	60483	100-A004-002	-
			SCALE	SHEET		1 OF 4
			N:S			

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FUNCTIONAL BLOCK DIAGRAM



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APPROVALS		DATE	TITLE			
DRAWN	<i>PRB</i>	07/30/07	FUNCTIONAL BLOCK DIAGRAM AGTN-2018-60DD-100			
CHECKED	<i>RA</i>	08/02/07	2-18 GHz FREQUENCY RANGE			
RE-DRAWN			SIZE	FSCM NO.	DWG NO.	REV.
			A	60483	100-A004-002	-
			SCALE	N:S	SHEET	3 OF 4