

DESCRIPTION

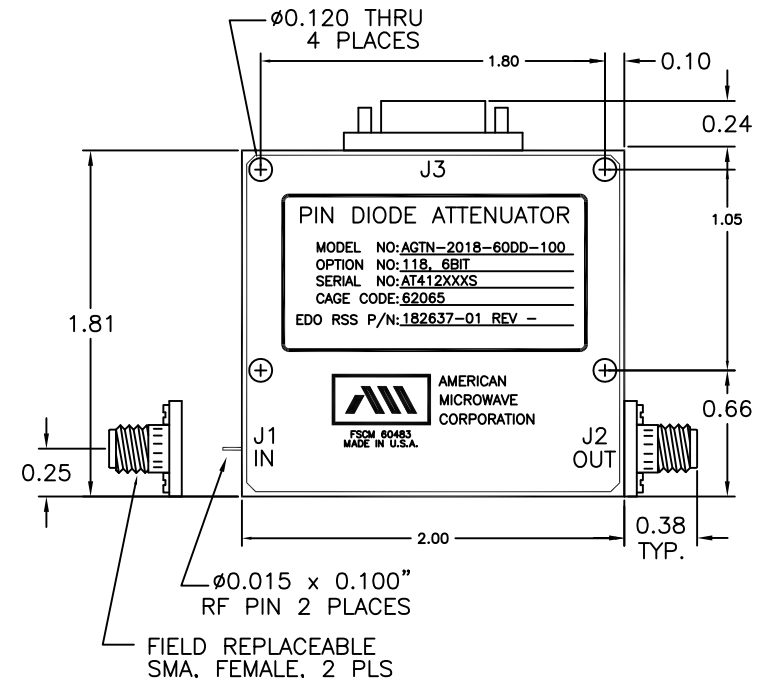
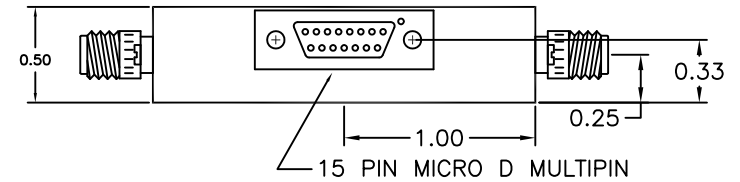
AMC MODEL AGTN-2018-60DD-100 OPTION: 118, 6BIT IS BROAD BAND VARIABLE ATTENUATOR/MODULATOR, CONTROLLED BY 6 BIT POSITIVE TRUE BINARY LOGIC.

SPECIFICATIONS

- FREQUENCY RANGE: 1 TO 18 GHz
- INSERTION LOSS: 4.5 dB MAXIMUM
- ATTENUATION FLATNESS
(± dB MAXIMUM):
 @ 30 dB ± 2.0 dB MAXIMUM
 @ 40 dB ± 3.0 dB MAXIMUM
 @ 60 dB ± 5.5 dB MAXIMUM
- ATTENUATION ACCURACY:
 0-10 dB ± 1.0 dB MAXIMUM
 >10-20 dB ± 1.0 dB MAXIMUM
 >20-30 dB ± 1.5 dB MAXIMUM
 >30-40 dB ± 1.5 dB MAXIMUM
 >40-50 dB ± 2.0 dB MAXIMUM
 >50-60 dB ± 2.0 dB MAXIMUM
- SWITCHING SPEED: 25 uSec MAXIMUM
- VSWR: 2.0:1 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: 6 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 (FEMALE)
 MATING CONNECTOR FURNISHED
- SIZE: 2.00" x 1.81" x 0.50"
- WEIGHT: 5 oz. MAXIMUM

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	-12VDC
9	Not Used

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE JOB# 409217	12/9/04	
	A	SEE ECR# 09-004	1/21/09	
	B	SEE ECR# 10-007	2/23/10	RA
	C	SEE ER# 14-008	2/27/14	RA



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

ENVIRONMENTAL RATINGS

- TEMPERATURE:
 -55°C TO +85°C (OPERATING)
 -65°C TO +125°C (STORAGE)
- ALTITUDE (OPERATING): MIL-STD-810, METHOD 500.4, PROCEDURE I,
 SEA LEVEL TO 36,000 FEET ASL
- ALTITUDE (NON-OPERATING): MIL-STD-810, METHOD 500.4, PROCEDURE I,
 SEA LEVEL TO 11,000 FEET ASL
- HUMIDITY: TO 100% RELATIVE HUMIDITY +30°C TO +60°C WITH
 CONDENSATION, 5 CYCLES PER PROCEDURE 507.4
- FUNGUS: NO FUNGUS NUTRIENT MATERIALS ARE TO BE USED IN THE DESIGN
- SALT FOG: MIL-STD-810, METHOD 509.4, 96 HOURS EXP.
- VIBRATION, SINUSOIDAL: 0.2" (DOUBLE AMPLITUDE) FROM 5-14 Hz, 2.0 G FROM 14 TO 33 Hz
- VIBRATION, RANDOM: 0.30 g2/Hz FROM 15 Hz, DECREASING AT 6 dB PER OCTAVE
 STARTING AT 66 Hz PER MIL-STD-810 514.5, TABLE II
 AND FIG 9 AND 516.5 TABLE 1.
- FUNCTIONAL SHOCK: 10 G (6 SHOCKS PER AXIS, 10-12 MILLISECONDS DURATION)
- EXPLOSIVE ATMOSPHERE: MIL-STD-810, METHOD 511.4, PROCEDURE I,
 OPERATE WITHOUT IGNITING THE EXPLOSIVE ENVIRONMENT
- ENVIRONMENTAL STRESS SCREENING (ESS): PER PARAGRAPH 4.2 OF EDO RSS DWG# 182637, SPECIFICATION 122026

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

AMERICAN MICROWAVE CORPORATION

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



APPROVALS		DATE	TITLE				
DRAWN <i>JDJ</i>		12/9/04	PRODUCT FEATURE AGTN-2018-60DD-100 OPTION: 118, 6BIT				
CHECKED			1 - 18 GHz, 6 BIT DIGITALLY CONTROLLED ATTENUATOR	SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	60483	100-7206	C	
SCALE N:S			SHEET 1 OF 1				