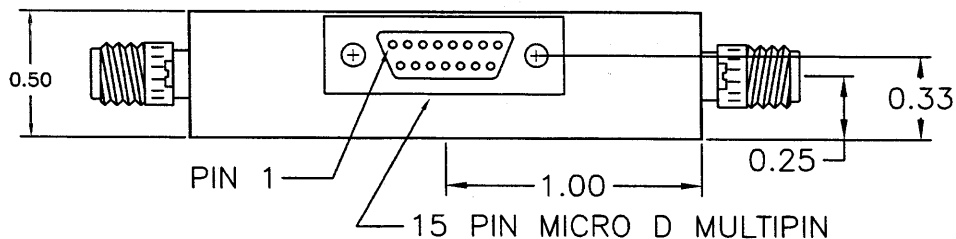


DESCRIPTION

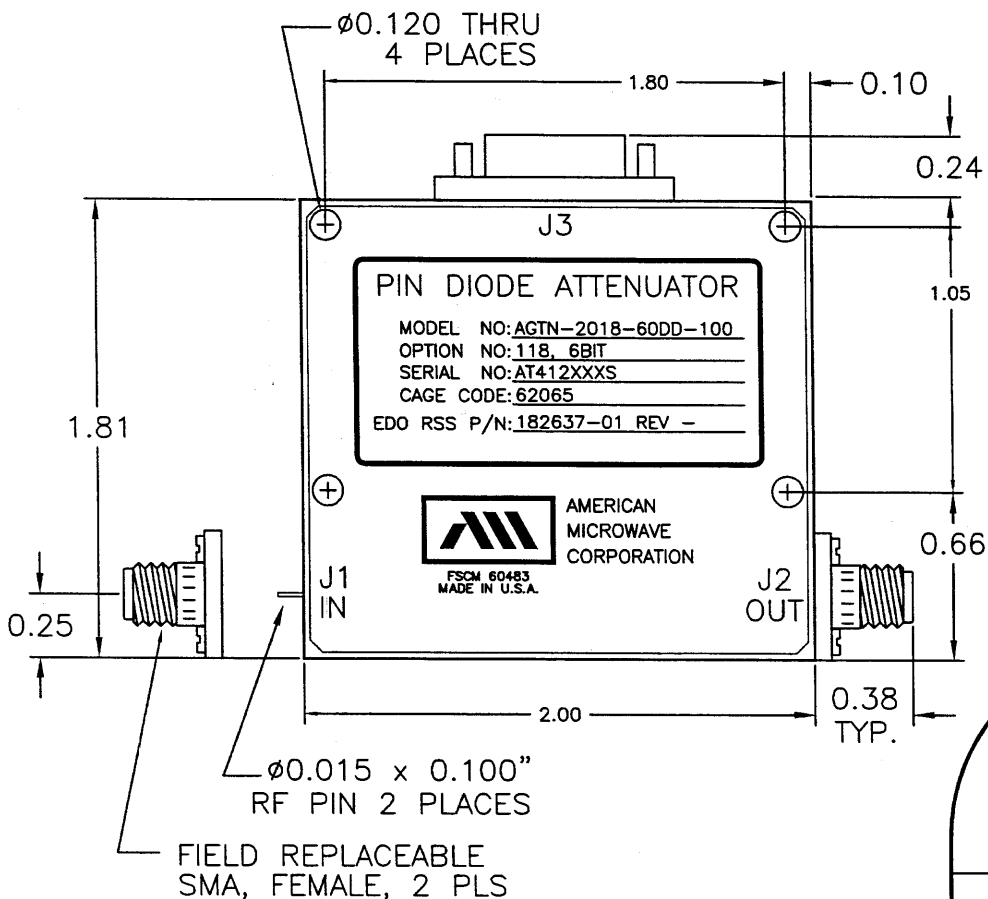
AMC MODEL AGTN-2018-60DD-100 OPTION: 118, 6BIT IS BROAD BAND VARIABLE ATTENUATOR/MODULATOR, CONTROLLED BY 6 BIT POSITIVE TRUE BINARY LOGIC.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	-	ORIGINAL RELEASE JOB# 409217	12/9/04	



MECHANICAL OUTLINE

PIN OUT TABLE	
PIN	FUNCTION
1	GND
2	N/C
3	N/C
4	GND
5	N/C
6	N/C
7	1.0 dB (LSB)
8	2.0 dB
9	4.0 dB
10	8.0 dB
11	16.0 dB
12	32.0 dB (MSB)
13	+12 VDC
14	-12 VDC
15	N/C



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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>gdy</i>	12/9/04	MECHANICAL OUTLINE AGTN-2018-60DD-100 OPTION:118, 6BIT		
CHECKED	<i>ka</i>	12/6/04	1 - 18 GHz, 6 BIT DIGITALLY CONTROLLED ATTENUATOR		
ISSUED			SIZE	FSCM NO.	DWG NO.
			A	60483	100-7206
			SCALE	N:S	SHEET 2 OF 3

DESCRIPTION

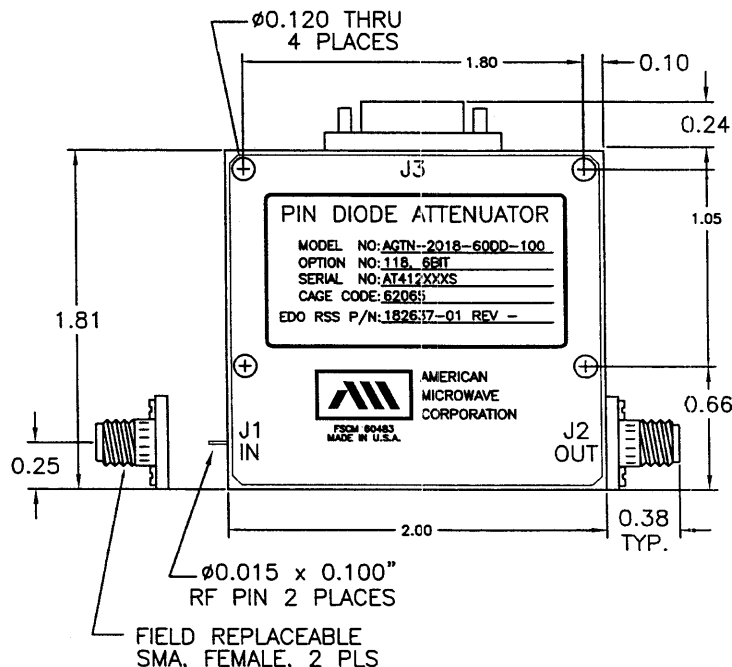
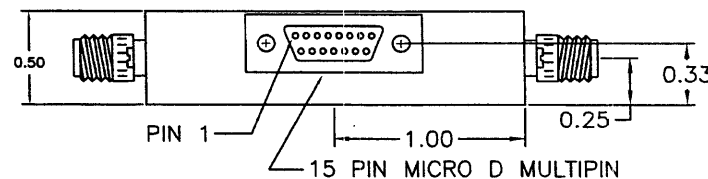
AMC MODEL AGTN-2018-60DD-100 OPTION: 118, 6BIT IS BROAD BAND VARIABLE ATTENUATOR/MODULATOR, CONTROLLED BY 6 BIT POSITIVE TRUE BINARY LOGIC.

SPECIFICATIONS

- FREQUENCY RANGE:** 1 TO 18 GHz
- INSERTION LOSS:** 4.5 dB MAXIMUM
- ATTENUATION FLATNESS**
(± dB MAXIMUM): 0-30 dB ± 1.0 dB MAXIMUM
30-50 dB ± 3.0 dB MAXIMUM
50-60 dB ± 4.0 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:** 2.2:1 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:** 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 (MALE)
MATING CONNECTOR FURNISHED
- SIZE:** 2.00" x 1.81" x 0.50"
- WEIGHT:** 5 oz. MAXIMUM

PIN OUT TABLE	
PIN	FUNCTION
1	GND
2	N/C
3	N/C
4	GND
5	N/C
6	N/C
7	1.0 dB (LSB)
8	2.0 dB
9	4.0 dB
10	8.0 dB
11	16.0 dB
12	32.0 dB (MSB)
13	+12 VDC
14	-12 VDC
15	N/C

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	-	ORIGINAL RELEASE JOB# 409217	12/9/04	EX



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

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APPROVALS		DATE	TITLE		REV.
DRAWN	JDJ	12/9/04	PRODUCT FEATURE AGTN-2018-60DD-100 OPTION: 118, 6BIT		1 - 18 GHz, 6 BIT DIGITALLY CONTROLLED ATTENUATOR
CHECKED	pk	12/16/04	SIZE	FSCM NCI.	DWG NO.
ISSUED			A	60483	100-7206
			SCALE	N:S	SHEET 1 OF 3