

DESCRIPTION

AMC MODEL AGH-8018-65DD-205 IS A HIGH SPEED OVER-OCTAVE BAND VARIABLE ATTENUATOR/MODULATOR, CONTROLLED BY 8 BIT POSITIVE TRUE BINARY LOGIC.

SPECIFICATIONS

- FREQUENCY RANGE 6.0-18.0 GHz MINIMUM
- INSERTION LOSS 3.0 dB MAXIMUM
- ATTENUATION FLATNESS (\pm dB MAXIMUM)

FREQUENCY RANGE	10 dB	20 dB	40 dB	60 dB
8.0-18.0 GHz	0.7	1.0	1.5	1.6
6.0-18.0 GHz	0.9	1.5	3.0	3.5

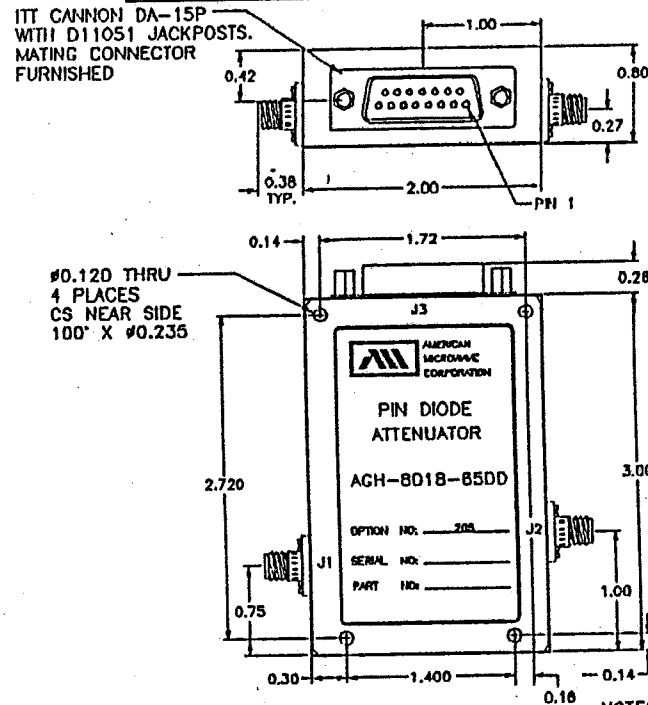
- ATTENUATION ACCURACY 0-30 dB \pm 0.5 dB MAXIMUM
(MONOTICITY IS GUARANTEED) 30-50 dB \pm 1.0 dB MAXIMUM
50-60 dB \pm 1.5 dB MAXIMUM
- TEMPERATURE COEFFICIENT \pm 0.025 dB/ $^{\circ}$ C MAXIMUM
- SWITCHING TIME
DELAY ON (50% TTL TO 90% RF) ... 900 ns MAXIMUM
DELAY OFF (50% TTL TO 10% RF) ... 900 ns MAXIMUM
- VSWR (ALL ATTENUATION LEVELS) 2:1 MAXIMUM
- RF POWER RATINGS
OPERATING POWER +20 dBm CW MAXIMUM
SURVIVAL POWER +30 dBm CW MAXIMUM
- CONTROL 8 BIT TRUE BINARY LOGIC
0.25 dB MAXIMUM ATTENUATION STEPS
- POWER SUPPLY +12 TO +18VDC @ 100 mA MAXIMUM
-12 TO -18VDC @ 100 mA MAXIMUM
- CONNECTORS
RF INPUT/OUTPUT SMA FEMALE
POWER AND CONTROLS 15 PIN D TYPE SUBMINIATURE MALE,
MATING CONNECTOR FURNISHED
- SIZE 2.00" x 3.00" x 0.80"

AVAILABLE OPTIONS

- A01 J1 SMA MALE, J2 SMA FEMALE
- A02 TWO SMA MALE RF CONNECTORS

REV. NO.		DESCRIPTION	APPROVED
01	01	A ORIGINAL RELEASE, JOB # 207187E	09/27/93

MECHANICAL OUTLINE



J3 PIN #	FUNCTION
1	GND
2	ANALOG INPUT
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	+V
14	-V
15	N/C

- NOTES:
- 1) DIMENSIONS ARE IN INCHES
 - 2) TOLERANCES: X.XX \pm 0.020
X.XXX \pm 0.010
 - 3) WEIGHT: APPROX. 7.0 OZ

ENVIRONMENTAL RATINGS

- TEMPERATURE -55 $^{\circ}$ C TO +85 $^{\circ}$ C (OPERATING)
-55 $^{\circ}$ C TO +125 $^{\circ}$ 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

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APPROVALS		DATE	
DRAWN <i>WSP</i>		09/27/93	
CHECKED <i>R. M. ...</i>		10/14/97	
PRODUCT FEATURE AGH-8018-65DD-205 8.0-18 GHz, HIGH SPEED PROGRAMMABLE VARIABLE ATTENUATOR			
SIZE A		SHEET 1 OF 2	
DWG. # 100-3120			