

DESCRIPTION

AMC MODEL AGH-2550-60DD-410 IS AN OVER-OCTAVE BAND VARIABLE ATTENUATOR/MODULATOR, CONTROLLED BY 10 BIT POSITIVE TRUE BINARY LOGIC.

SPECIFICATIONS

- FREQUENCY RANGE 1.9-5.6 GHz MINIMUM
- INSERTION LOSS 2.0 dB MAXIMUM 2.5-5.0 GHz
2.1 dB MAXIMUM 1.9-5.6 GHz
- ATTENUATION FLATNESS (\pm dB MAXIMUM)

FREQUENCY RANGE	10 dB	20 dB	40 dB	60 dB
2.5-5.0 GHz	0.3	0.8	1.5	1.6
1.9-5.6 GHz	0.5	1.4	3.0	3.5

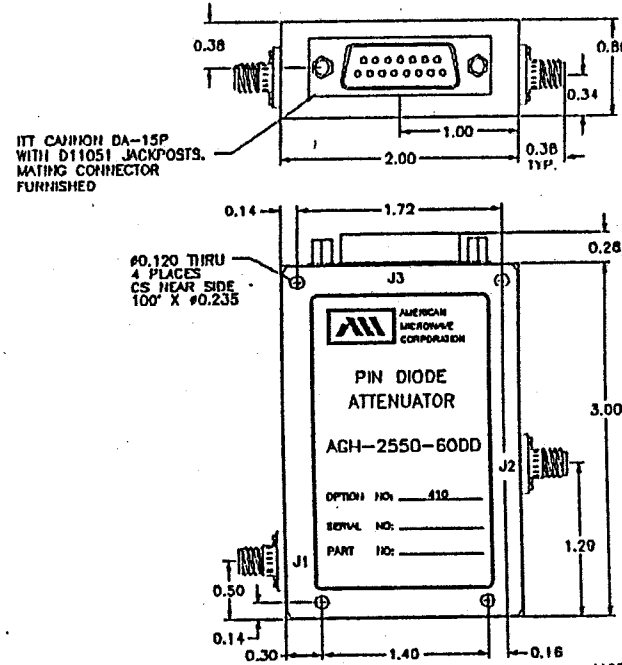
- ATTENUATION ACCURACY 0-30 dB \pm 0.5 dB MAXIMUM
30-50 dB \pm 1.0 dB MAXIMUM
50-60 dB \pm 1.5 dB MAXIMUM
- TEMPERATURE COEFFICIENT \pm 0.025 dB/ $^{\circ}$ C MAXIMUM
- SWITCHING TIME
DELAY ON (50% TTL TO 90% RF) ... 2.0 μ s MAXIMUM
DELAY OFF (50% TTL TO 10% RF) ... 2.0 μ s MAXIMUM
- VSWR (ALL ATTENUATION LEVELS) 2:1 MAXIMUM
- RF POWER RATINGS
OPERATING POWER +20 dBm CW MAXIMUM
SURVIVAL POWER +30 dBm CW MAXIMUM
- CONTROL 10 BIT TRUE BINARY LOGIC
0.1 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
- A03 8 BIT BINARY LOGIC
- A04 11 BIT BINARY LOGIC
- A05 12 BIT BINARY LOGIC

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE, JOB # 212313-2E	04/28/93	

MECHANICAL OUTLINE




J3 PIN FUNCTION	
PIN#	FUNCTION
1	GND
2	ANALOG INPUT
3	0.1 dB (LSB)
4	0.2 dB
5	0.4 dB
6	0.8 dB
7	1.6 dB
8	3.2 dB
9	6.4 dB
10	12.8 dB
11	25.6 dB
12	51.2 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. 6.0 OZ

ENVIRONMENTAL RATINGS

- TEMPERATURE -55 $^{\circ}$ C TO +85 $^{\circ}$ C (OPERATING)
-65 $^{\circ}$ 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

		AMERICAN MICROWAVE CORPORATION 7311G GROVE RD., FREDERICK, MD. 21701 TEL: (301) 662-4700 FAX: (301) 662-4938		
		PRODUCT FEATURE AGH-2550-60DD-410 1.9-5.6 GHz, PROGRAMMABLE VARIABLE ATTENUATOR		
APPROVALS DRAWN: <i>WSP</i> CHECKED: <i>R. A. [Signature]</i>	DATE 04/28/93 10/17/93	SIZE A	SHEET 1 OF 2	DWG. # 100-3128