

DESCRIPTION

AMC MODEL AGH-5010-60DD-120 IS A OVER-OCTAVE BAND VARIABLE ATTENUATOR/MODULATOR, CONTROLLED BY 8 BIT POSITIVE TRUE BINARY LOGIC WITH 120 dB DYNAMIC RANGE.

SPECIFICATIONS

- FREQUENCY RANGE 5.0-10.0 GHz
- INSERTION LOSS 5.0-10.0 GHz 5.4 dB MAXIMUM
3.75-11.25 GHz 5.8 dB MAXIMUM
- ATTENUATION FLATNESS (\pm dB MAXIMUM)

FREQUENCY RANGE	10 dB	20 dB	40 dB	60 dB	80 dB	120 dB
5.0-10.0 GHz	0.6	0.9	1.5	1.6	2.5	3.2
3.75-11.25 GHz	0.8	1.5	3.0	3.5	5.0	7.0

- 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
60-80 dB \pm 2.0 dB MAXIMUM
80-120 dB \pm 2.5 dB MAXIMUM
- TEMPERATURE COEFFICIENT \pm 0.025 dB/C MAXIMUM
- SWITCHING TIME 3 μ S MAXIMUM
- VSWR @ 0 dB ATTENUATION 5.0-10.0 GHz 2.0:1 MAXIMUM
3.75-11.25 GHz 2.2:1 MAXIMUM
- RF POWER RATINGS
OPERATING POWER +20 dBm CW MAXIMUM
SURVIVAL POWER +30 dBm CW MAXIMUM
- CONTROL 8 BIT TRUE BINARY LOGIC
- POWER SUPPLY +12VDC @ 250 mA MAXIMUM
-12VDC @ 100 mA MAXIMUM
- CONNECTORS
RF INPUT/OUTPUT SMA FEMALE
POWER AND CONTROLS 15 PIN D TYPE SUBMINIATURE MALE,
MATING CONNECTOR FURNISHED
- SIZE 4.68" x 3.45" x 0.80"

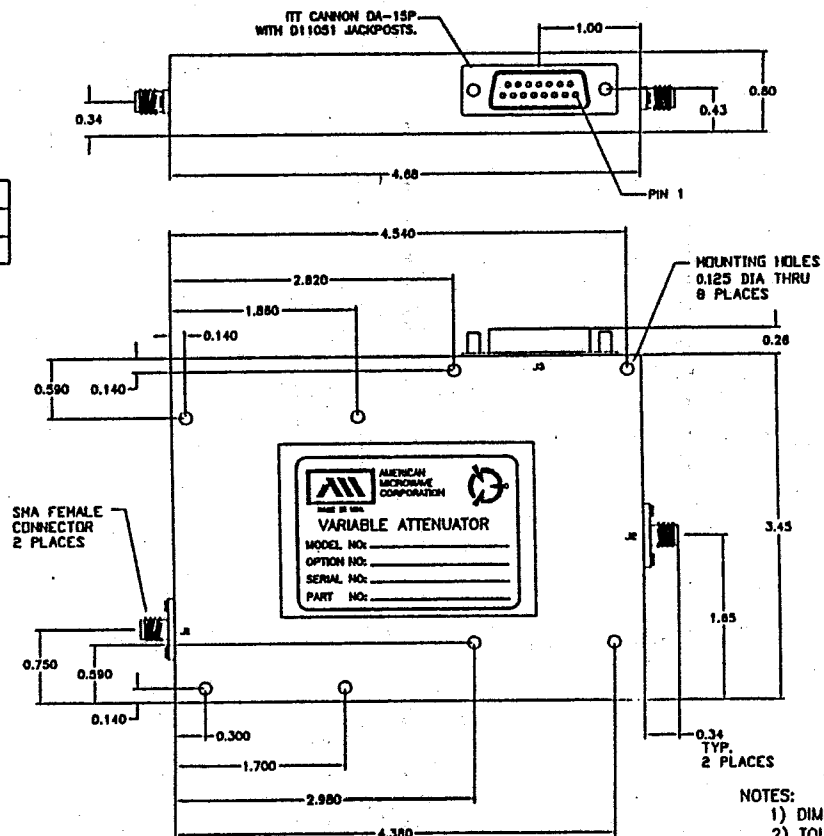
AVAILABLE OPTIONS

- A01 TWO SMA MALE RF CONNECTORS
- A02 J1 SMA MALE, J2 SMA FEMALE
- A03 MOUNTING SURFACE UNPAINTED
- A04 ANALOG CONTROLLED UNIT OF 20dB/VOLT. PIN 2 IS USED AS CONTROL. (OTHER CONTROL VOLTAGES AVAILABLE.) FOR SOLDER PIN UNITS REFER TO DATA SHEET AGH-5010-60D-120.
- A05 \pm 15VDC POWER SUPPLY
- A06 0-90 dB DYNAMIC RANGE
- A07 EXTENDED BANDWIDTH (3.75-11.25 GHz)
- A08 LATCHING STROBE (NOT AVAILABLE WITH OPTION A12)
- 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 HIGH SPEED 500 nS MAXIMUM
- SCS SPECIAL CUSTOMER SPECIFICATIONS

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

REV.		DESCRIPTION	DATE	APPROVED
ZONE	A	ORIGINAL RELEASE	11/12/97	

MECHANICAL OUTLINE



8 BIT TRUE BINARY LOGIC	
J3 PIN #	PIN FUNCTION
1	GND
2	LATCHING STROBE OPTIONAL
3	N/C
4	GND
5	0.50 dB (LSB)
6	1.0 dB
7	2.0 dB
8	4.0 dB
9	8.0 dB
10	16.0 dB
11	32.0 dB
12	64.0 dB (MSB)
13	+V
14	-V
15	N/C

- NOTES:
- DIMENSIONS ARE IN INCHES
 - TOLERANCES: X.XX \pm 0.020
X.XXX \pm 0.010
APPROX. 7.0 01
 - WEIGHT:

ENVIRONMENTAL RATINGS

- TEMPERATURE -55°C TO +85°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



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APPROVALS	DATE
DRAWN <i>R. B. G.</i>	11/12/97
CHECKED <i>R. M. Gable</i>	11/12/97

PRELIMINARY PRODUCT FEATURE

AGH-5010-60DD-120

5.0-10.0 GHz, PROGRAMMABLE VARIABLE ATTENUATOR

SIZE A SHEET 1 OF 2 DWG. # 100-4262

pw 11/12/97
WDP 11/12/97