

DESCRIPTION

AMC MODEL AGH-2040-60DD-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.....2.0-4.0 GHz
- INSERTION LOSS.....2.0-4.0 GHz 4.0 dB MAXIMUM
1.5-4.5 GHz 5.0 dB MAXIMUM
- ATTENUATION FLATNESS (±dB MAXIMUM)

FREQUENCY RANGE	10 dB	20 dB	40 dB	60 dB	80 dB	120 dB
2.0-4.0 GHz	0.5	0.8	1.5	1.6	2.5	3.2
1.5-4.5 GHz	0.7	1.5	3.0	3.5	5.0	7.0

- ATTENUATION ACCURACY.....0-30 dB ±0.5 dB MAXIMUM (MONOTICITY IS GUARANTEED)
30-50 dB ±1.0 dB MAXIMUM
50-60 dB ±1.5 dB MAXIMUM
60-80 dB ±2.0 dB MAXIMUM
80-120 dB ±2.5 dB MAXIMUM
- TEMPERATURE COEFFICIENT.....±0.025 dB/°C MAXIMUM
- SWITCHING TIME.....3 μS MAXIMUM
- VSWR @ 0 dB ATTENUATION.....2.0-4.0 GHz 2.0:1 MAXIMUM
1.5-4.5 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 3.80" x 0.80"

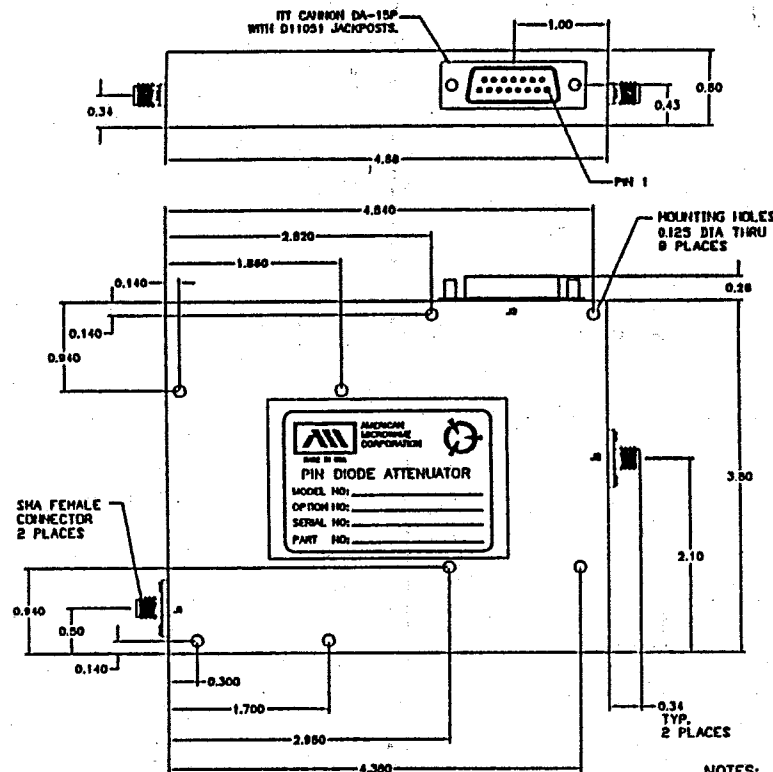
AVAILABLE OPTIONS

- 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-2040-60D-120.
- A05.....±15VDC POWER SUPPLY
- A06.....0-90 dB DYNAMIC RANGE
- A07.....EXTENDED BANDWIDTH (1.5-4.5 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

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

MECHANICAL OUTLINE



8 BIT TRUE BINARY LOGIC J3 PIN FUNCTION	
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:
 1) DIMENSIONS ARE IN INCHES
 2) TOLERANCES: X.XX ±0.020
 X.XXX ±0.010
 APPROX. 7.0 OZ
 3) 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>B.L.B.</i>		11/12/97	
CHECKED <i>L.A. Mc</i>		11/12/97	
PRELIMINARY PRODUCT FEATURE AGH-2040-60DD-120 2.0-4.0 GHz, PROGRAMMABLE VARIABLE ATTENUATOR			
SIZE	A	SHEET	1 OF 2
		DWG. #	100-4265

As 11/12/97
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