

DESCRIPTION

AMC MODEL AGH-8018-60DD-120 IS A OVER-OCTAVE BAND VARIABLE ATTENUATOR/MODULATOR, CONTROLLED BY 8 BIT POSITIVE TRUE BINARY LOGIC WITH 120 dB DYNAMIC RANGE.

ZONE	REV.	DESCRIPTION	REVISIONS	APPROVED
	A	JOB # 308196, NRL	11/11/97	

SPECIFICATIONS

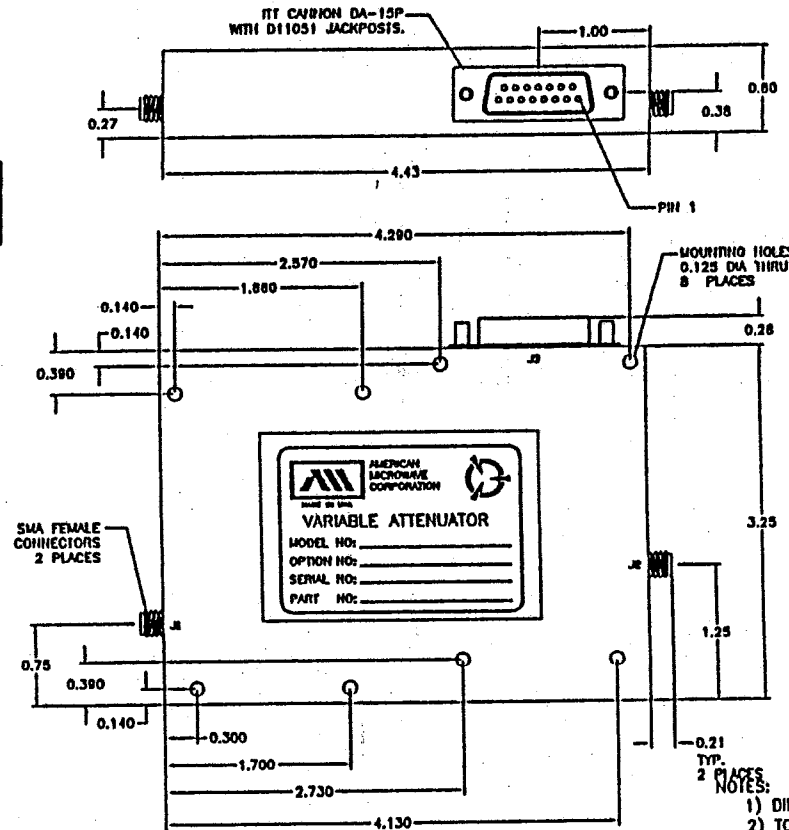
- FREQUENCY RANGE..... 8.0-18.0 GHz
 - INSERTION LOSS..... 7.5 dB MAXIMUM
 - ATTENUATION FLATNESS (±dB MAXIMUM)
- | FREQUENCY RANGE | 10 dB | 20 dB | 40 dB | 60 dB | 80 dB | 120 dB |
|-----------------|-------|-------|-------|-------|-------|--------|
| 8.0-18.0 GHz | 0.8 | 1.1 | 1.5 | 1.6 | 2.5 | 3.2 |
| 6.0-18.0 GHz | 0.9 | 1.6 | 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..... 8.0-18.0 GHz 2.0:1 MAXIMUM
 - 6.0-18.0 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..... +12 VDC @ 250 mA MAXIMUM
 - 12 VDC @ 100 mA MAXIMUM
 - CONNECTORS
 - RF INPUT/OUTPUT..... SMA FEMALE
 - POWER AND CONTROLS..... 15 PIN D TYPE SUBMINIATURE MALE, MATING CONNECTOR FURNISHED
 - SIZE..... 4.43" x 3.25" 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-8018-60D-120.
- A05..... ± 15 VDC POWER SUPPLY
- A06..... 0-90 dB DYNAMIC RANGE
- A07..... EXTENDED BANDWIDTH (6.0-18.0 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


MECHANICAL OUTLINE



8 BIT TRUE BINARY LOGIC	
J3 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

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

		AMERICAN MICROWAVE CORPORATION 7311G GROVE RD., FREDERICK, MD. 21701 TEL: (301) 662-4700 FAX: (301) 662-4938		
		PRELIMINARY PRODUCT FEATURE AGH-8018-60DD-120 8.0-18.0 GHz, PROGRAMMABLE VARIABLE ATTENUATOR		
APPROVALS DRAWN: <i>Byre</i> CHECKED: <i>F. M. J.</i>	DATE 11/11/97	SIZE A	SHEET 1 OF 2	DWG. # 100-4260

WP 11/11/97