

# DESCRIPTION

AMC MODEL AGH-5010-60D-120 IS A OVER-OCTAVE BAND VOLTAGE CONTROLLED ATTENUATOR/MODULATOR, 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 (±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 ±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.....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.....-20 dB/VOLT  
(OTHER CONTROL VOLTAGES AVAILABLE)
  - POWER SUPPLY.....+12VDC @ 250 mA MAXIMUM  
-12VDC @ 100 mA MAXIMUM
  - CONNECTORS  
RF INPUT/OUTPUT.....SMA FEMALE  
POWER AND CONTROLS.....SOLDER PIN
  - SIZE.....3.29" x 1.85" x 0.60"  
4.68" x 3.45" x 0.80" (OPTION A04)

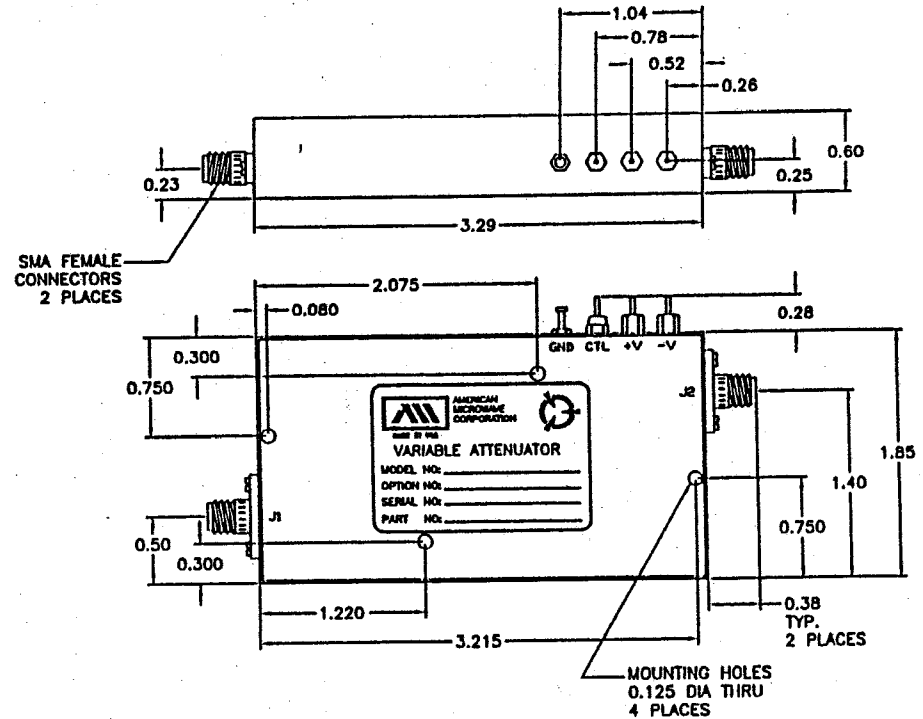
# AVAILABLE OPTIONS

- A01..... TWO SMA MALE RF CONNECTORS
- A02..... J1 SMA MALE, J2 SMA FEMALE
- A03..... MOUNTING SURFACE UNPAINTED
- A04..... MULTIPIN ANALOG CONTROLLED UNIT (SEE SHEET 2 OF 2)  
FOR DIGITALLY CONTROLLED UNITS REFER TO DATA SHEET AGH-5010-60DD-120.
- A05..... ±15VDC POWER SUPPLY
- A06..... 0-90 dB DYNAMIC RANGE
- A07..... EXTENDED BANDWIDTH (3.75-11.25 GHz)
- A08..... LATCHING STROBE
- A09..... HIGH SPEED 500 nS MAXIMUM
- SCS..... SPECIAL CUSTOMER SPECIFICATIONS

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

REV. NO.		REVISIONS	DATE	APPROVED
ZONE	REV.	DESCRIPTION		
A		ORIGINAL RELEASE	12/18/97	


# MECHANICAL OUTLINE



- NOTES:
- DIMENSIONS ARE IN INCHES
  - TOLERANCES: X.XX ±0.020  
X.XXX ±0.010  
APPROX. 7.0 O
  - WEIGHT:

# ENVIRONMENTAL RATINGS

- TEMPERATURE.....-55°C TO +85°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- HUMIDITY.....MIL-STD-202F, METHOD 103B COND. E
- SHOCK.....MIL-STD-202F, METHOD 213B COND. E
- VIBRATION.....MIL-STD-202F, METHOD 204D COND. E
- ALTITUDE.....MIL-STD-202F, METHOD 105C COND. E
- TEMPERATURE CYCLE...MIL-STD-202F, METHOD 107D COND. E

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		PRELIMINARY PRODUCT FEATURE <b>AGH-5010-60D-120</b> 5.0-10.0 GHz, VOLTAGE VARIABLE ATTENUATOR	
APPROVALS	DATE	SIZE	SHEET 1 OF 2
DRAWN <i>RLG</i> CHECKED <i>WUP</i>	DATE 12/18/97 DATE 12/19/97	A	DWG. # 100-4287

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