

DESCRIPTION

AMC MODEL AGH-1020-60D-120 IS A OVER-OCTAVE BAND VOLTAGE CONTROLLED ATTENUATOR/MODULATOR, WITH 120 dB DYNAMIC RANGE.

SPECIFICATIONS

- FREQUENCY RANGE.....1.0-2.0 GHz
 - INSERTION LOSS.....1.0-2.0 GHz 4.0 dB MAXIMUM
0.75-2.25 GHz 5.0 dB MAXIMUM
 - ATTENUATION FLATNESS (\pm dB MAXIMUM)
- | FREQUENCY RANGE | 10 dB | 20 dB | 40 dB | 60 dB | 80 dB | 120 dB |
|-----------------|-------|-------|-------|-------|-------|--------|
| 1.0-2.0 GHz | 0.5 | 0.8 | 1.5 | 1.6 | 2.5 | 3.2 |
| 0.75-2.25 GHz | 0.7 | 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/ $^{\circ}$ C MAXIMUM
 - SWITCHING TIME.....3 μ S MAXIMUM
 - VSWR @ 0 dB ATTENUATION.....1.0-2.0 GHz 2.0:1 MAXIMUM
0.75-2.25 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.....5.89" x 2.97" x 0.60"
5.81" x 3.97" x 0.80" (OPTION A04)

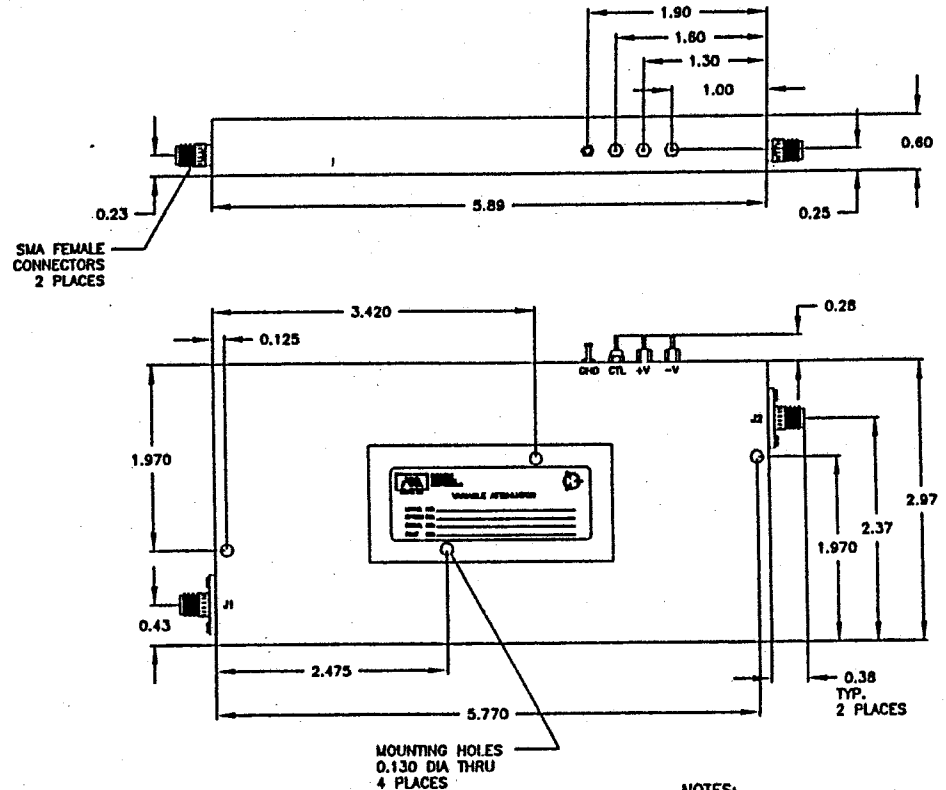
AVAILABLE OPTIONS

- 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-1020-60DD-120.
- A05..... \pm 15VDC POWER SUPPLY
- A06.....0-90 dB DYNAMIC RANGE
- A07.....EXTENDED BANDWIDTH (0.75-2.25 GHz)
- A08.....LATCHING STROBE
- A09.....HIGH SPEED 500 nS MAXIMUM
- SCS.....SPECIAL CUSTOMER SPECIFICATIONS

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

REVISIONS		DESCRIPTION	DATE	APPROVED
ZONE	REV.			
	A	ORIGINAL RELEASE	12/18/97	


MECHANICAL OUTLINE



- NOTES:
- 1) DIMENSIONS ARE IN INCHES
 - 2) TOLERANCES: X.XX \pm 0.020
X.XXX \pm 0.010
APPROX. 7.0 OZ
 - 3) WEIGHT:

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		
		PRELIMINARY PRODUCT FEATURE AGH-1020-60D-120 1.0-2.0 GHz, VOLTAGE VARIABLE ATTENUATOR		
APPROVALS DRAWN: <i>R.L.G.</i> CHECKED: <i>WP</i>	DATE 12/18/97 12/19/97	SIZE A	SHEET 1 OF 2	DWG. # 100-4291