

DESCRIPTION

AMC MODEL AGH-2040-60D-120 IS A OVER-OCTAVE BAND VOLTAGE CONTROLLED ATTENUATOR/MODULATOR, 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 (\pm 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 \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.....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.....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.....4.30" x 2.47" x 0.60"
4.68" x 3.80" x 0.80" (OPTION A04)

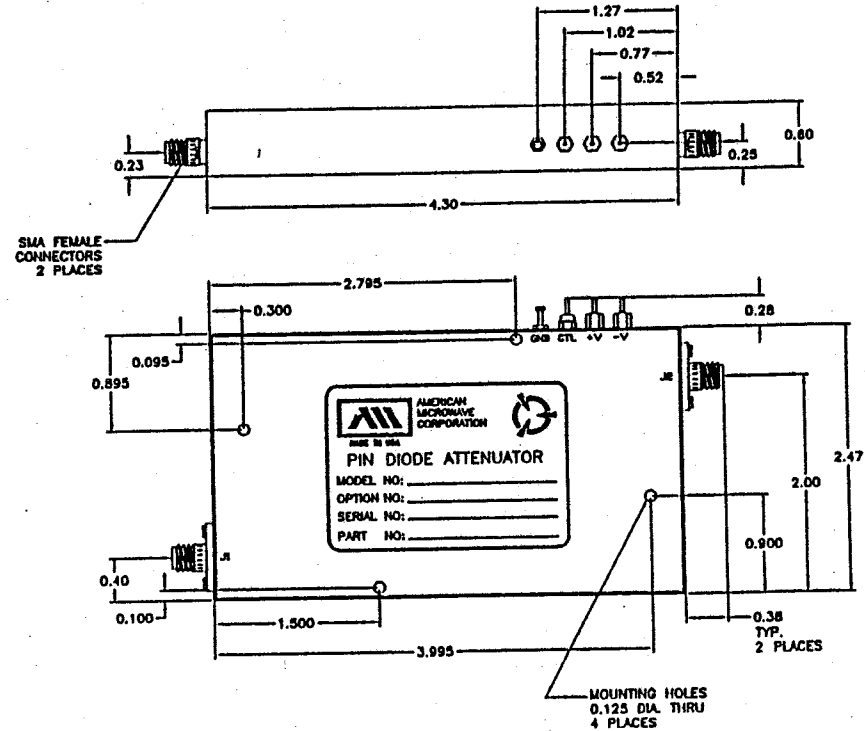
AVAILABLE OPTIONS

- 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-2040-60DD-120.
- A05..... \pm 15VDC POWER SUPPLY
- A06.....0-90 dB DYNAMIC RANGE
- A07.....EXTENDED BANDWIDTH (1.5-4.5 GHz)
- A08.....LATCHING STROBE
- A09.....HIGH SPEED 500 nS MAXIMUM
- SCS.....SPECIAL CUSTOMER SPECIFICATIONS

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ZONE		REV.	DESCRIPTION	DATE	APPROVED
		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 C
 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. I
- SHOCK.....MIL-STD-202F, METHOD 213B COND. I
- VIBRATION.....MIL-STD-202F, METHOD 204D COND. I
- ALTITUDE.....MIL-STD-202F, METHOD 105C COND. I
- TEMPERATURE CYCLE.....MIL-STD-202F, METHOD 107D COND. I

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		PRELIMINARY PRODUCT FEATURE AGH-2040-60D-120 2.0-4.0 GHz, VOLTAGE VARIABLE ATTENUATOR	
APPROVALS	DATE	SIZE	SHEET 1 OF 2
DRAWN BLS	12/18/97	A	DWG. # 100-4290
CHECKED WP	12/19/97		