REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE, JOB # 211297E	6/16/99	

DESCRIPTION

AMC MODEL AGH-1020-60D-SF IS A VOLTAGE CONTROLLED, HIGH SPEED VARIABLE ATTENUATOR/MODULATOR WITH BUILT IN LINEARIZER/DRIVER CIRCUITRY DESIGNED FOR HIGH DYNAMIC RANGE AND HIGH ACCURACY APPLICATIONS.

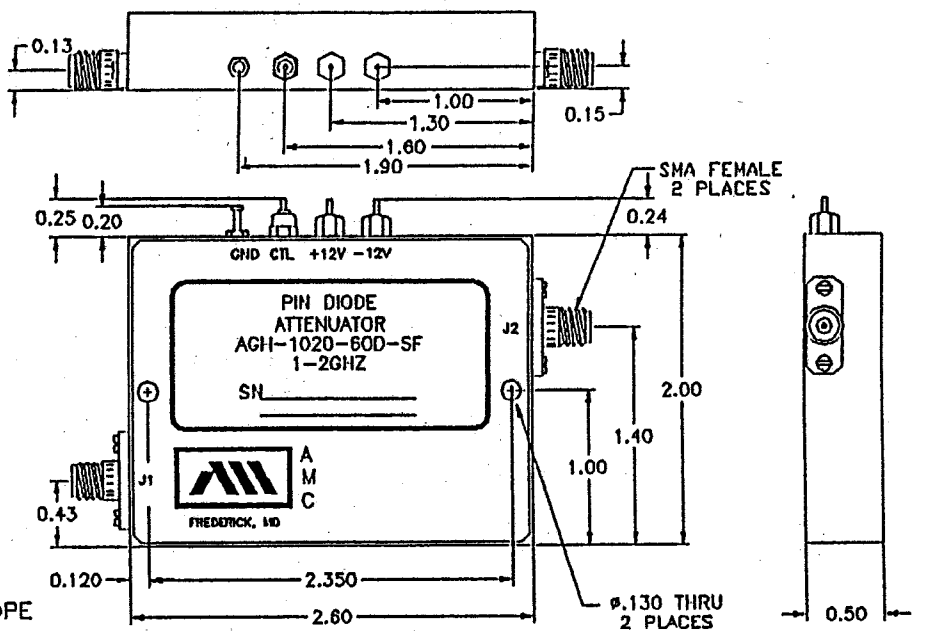
SPECIFICATIONS

- FREQUENCY RANGE ..... 1-2 GHz
- INSERTION LOSS ..... 2.0 dB MAXIMUM
- ATTENUATION FLATNESS ..... 0-10 dB ±0.45 dB MAXIMUM
  10-20 dB ±0.8 dB MAXIMUM
  20-40 dB ±1.5 dB MAXIMUM
  40-60 dB ±1.6 dB MAXIMUM
- ATTENUATION DYNAMIC RANGE ..... 60 dB
- ATTENUATION ACCURACY ..... 0-30 dB ±0.5 dB MAXIMUM
  (DEVIATION FROM 30-50 dB ±1.0 dB MAXIMUM
  NOMINAL ATTENUATION) 50-60 dB ±1.5 dB MAXIMUM
- MONOTONICITY ..... GUARANTEED
- TEMPERATURE COEFFICIENT ..... ±0.025 dB/°C MAXIMUM
- SWITCHING TIME
  (-SF) ..... 500 ns MAXIMUM
  (-VF) ..... 200 ns MAXIMUM
  (-UF) ..... 125 ns MAXIMUM
- VSWR (ALL ATTENUATION LEVELS) ..... 1.5:1 MAXIMUM (1-2 GHz)
- POWER HANDLING
  (-SF) ..... +20 dBm CW OR PEAK
  (-VF) & (-UF) ..... +10 dBm CW OR PEAK
- CONTROL ..... VOLTAGE CONTROLLED
  10 dB/VOLT TRANSFER FUNCTION SLOPE
- POWER SUPPLY ..... +12VDC ±5%@100 mA MAXIMUM
- CONNECTORS -12VDC ±5%@ 20 mA MAXIMUM
  RF INPUT/OUTPUT ..... SMA FEMALE
  POWER ..... SOLDER PIN
  CONTROL ..... SOLDER PIN
- SIZE ..... 2.6" x 2.0" x 0.50"

AVAILABLE OPTIONS

A01 ..... J1 SMA MALE, J2 SMA FEMALE
A02 ..... J1 SMA FEMALE, J2 SMA MALE
A03 ..... J1 SMA MALE, J2 SMA MALE
A04 ..... SMA FEMALE CONTROL CONNECTOR
A05 ..... SMC MALE CONTROL CONNECTOR
A06 ..... MINIATURE 14 PIN MALE (MIL-C-28748) CONNECTOR
A07 ..... REMOVABLE SMA FEMALE RF CONNECTOR
A08 ..... ±15VDC SUPPLIES
A09 ..... ±18 VOLT POWER SUPPLY
A10 ..... 0-30 dB RANGE
A11 ..... 5 dB/VOLT TRANSFER FUNCTION SLOPE
A12 ..... 0.75-2.25 GHz WITH INSERTION LOSS OF 2.5 dB MAXIMUM VSWR OF 2.2:1 MAXIMUM AND ATTENUATION FLATNESS OF ±0.65 dB @10 db, ±1.5 dB @ 20 dB, ±3.0 dB @ 40 dB AND ±3.5 dB @ 60 dB
A13 ..... 8 BIT DIGITAL CONTROLLED AND LINEARIZED
A14 ..... OPTION 20, OPTIMIZED FOR 1365-1435 MHz

MECHANICAL OUTLINE



NOTES:
1. DIMENSIONS ARE IN INCHES
2. TOLERANCES: X.XX ±0.020
   X.XXX ±0.010
3. WEIGHT: APPROX. 3.0 OZ

ENVIRONMENTAL RATINGS

- TEMPERATURE ..... -20°C TO +70°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

APPROVALS	DATE
DRAWN WSP	6/16/99
CHECKED	10/14/99

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PRODUCT FEATURE
AGH-1020-60D-SF
1-2 GHz, VOLTAGE CONTROLLED, HIGH SPEED, VARIABLE ATTENUATOR/MODULATOR

SF (STANDARD)
VF (VERY FAST)
UF (ULTRA FAST)

SIZE A | SHEET 1 OF 2 | DWG. # 100-3170