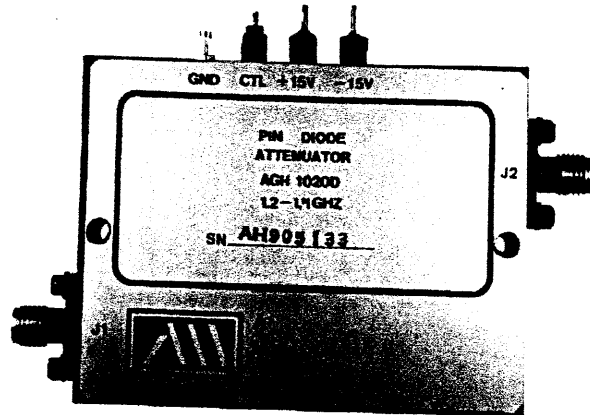


AMERICAN MICROWAVE CORPORATION

1.2 GHz TO 1.4 GHz, VOLTAGE CONTROLLED ATTENUATOR

KEY FEATURES

- 1.2 GHz TO 1.4 GHz
- 30 dB DYNAMIC RANGE
- LOW INSERTION LOSS
- HIGH SPEED
- HIGH ACCURACY
- $\pm 20^\circ$ PHASE SHIFT ($\pm 15^\circ$ GOAL)
- $\pm 7.5^\circ$ PHASE TRACKING ($\pm 5^\circ$ GOAL)



AMC MODEL No: AGH-1020D OPT. 004, 005, 103F, WI

SPECIFICATIONS:

• FREQUENCY RANGE	:	1.2 GHz TO 1.4 GHz
• INSERTION LOSS	:	2.0 dB MAXIMUM (1.7 dB GOAL)
• ATTENUATION DYNAMIC RANGE	:	0 dB TO 30 dB MINIMUM
• ATTENUATION LINEARITY	:	± 1.0 MAXIMUM (± 0.5 dB GOAL)
• ABSOLUTE ACCURACY	:	± 1.5 dB MAXIMUM (± 1.2 dB GOAL)
• ATTENUATION FLATNESS	:	± 0.5 dB MAXIMUM
• TEMPERATURE COEFFICIENT	:	± 0.025 dB/ $^\circ$ C MAXIMUM
• SWITCHING SPEED: RISE	:	25 ns TYPICAL, 0.3 μ s MAXIMUM
FALL	:	15 ns TYPICAL, 0.2 μ s MAXIMUM
ON/OFF	:	30 ns TYPICAL, 0.5 μ s MAXIMUM
• RETURN LOSS AND VSWR	:	13.98 dB MINIMUM AND 1.5:1 MAXIMUM
• PHASE SHIFT	:	$\pm 20^\circ$ MAXIMUM ($\pm 15^\circ$ GOAL)
• PHASE TRACKING*	:	$\pm 7.5^\circ$ MAXIMUM ($\pm 5^\circ$ GOAL)
• TEMPERATURE RANGE	:	-40° C TO $+70^\circ$ C
• POWER HANDLING	:	+15 dBm CW WITHOUT PERFORMANCE DEGRADATION
• SURVIVAL POWER	:	+27 dBm CW
• NOMINAL CONTROL VOLTAGE CHARACTERISTICS		
RANGE	:	0 V TO 3.0 V
TRANSFER FUNCTION	:	10 dB/V
INPUT IMPEDANCE	:	10 k Ω
• POWER SUPPLY	:	+15 V @ 100 mA MAXIMUM
	:	-15 V @ 30 mA MAXIMUM
• CONNECTORS		
RF IN/OUT	:	SMA FEMALE
POWER	:	SOLDER PIN
CONTROL	:	SOLDER PIN
• SIZE	:	2.6" X 2.0" X 0.5"
• WEIGHT	:	≤ 4.0 oz.

*DEVIATION OF PHASE VARIATION FROM UNIT TO UNIT

DECEMBER 9, 1999

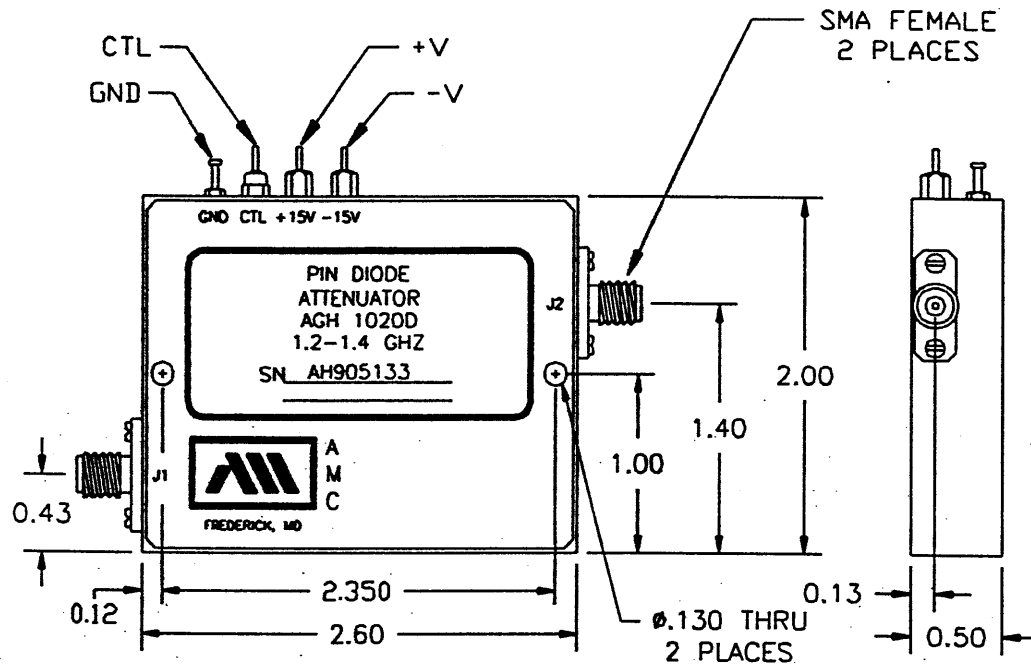
7311 G GROVE ROAD, FREDERICK, MARYLAND 21704 • Tel. (301) 662-4700 • Fax (301) 662-4938

SUMMARY TEST DATA



MODEL NUMBER
SERIAL NUMBER
TECHNICIAN

: AGH-1020D OPT. 004, 005, 103F, WI
: AH905133
: HOLLY HAHN



ALL DIMENSIONS ARE IN INCHES.
TOLERANCES:

X.XX ±0.02
X.XXX ±0.01

ENVIRONMENTAL RATINGS

• TEMPERATURE	-40°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

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION.

December 9, 1999