

**MODEL 601-1CM112
LOW NOISE TRANSDUCER
PREAMPLIFIER**

DL Instruments

Phone: (607)539-1108

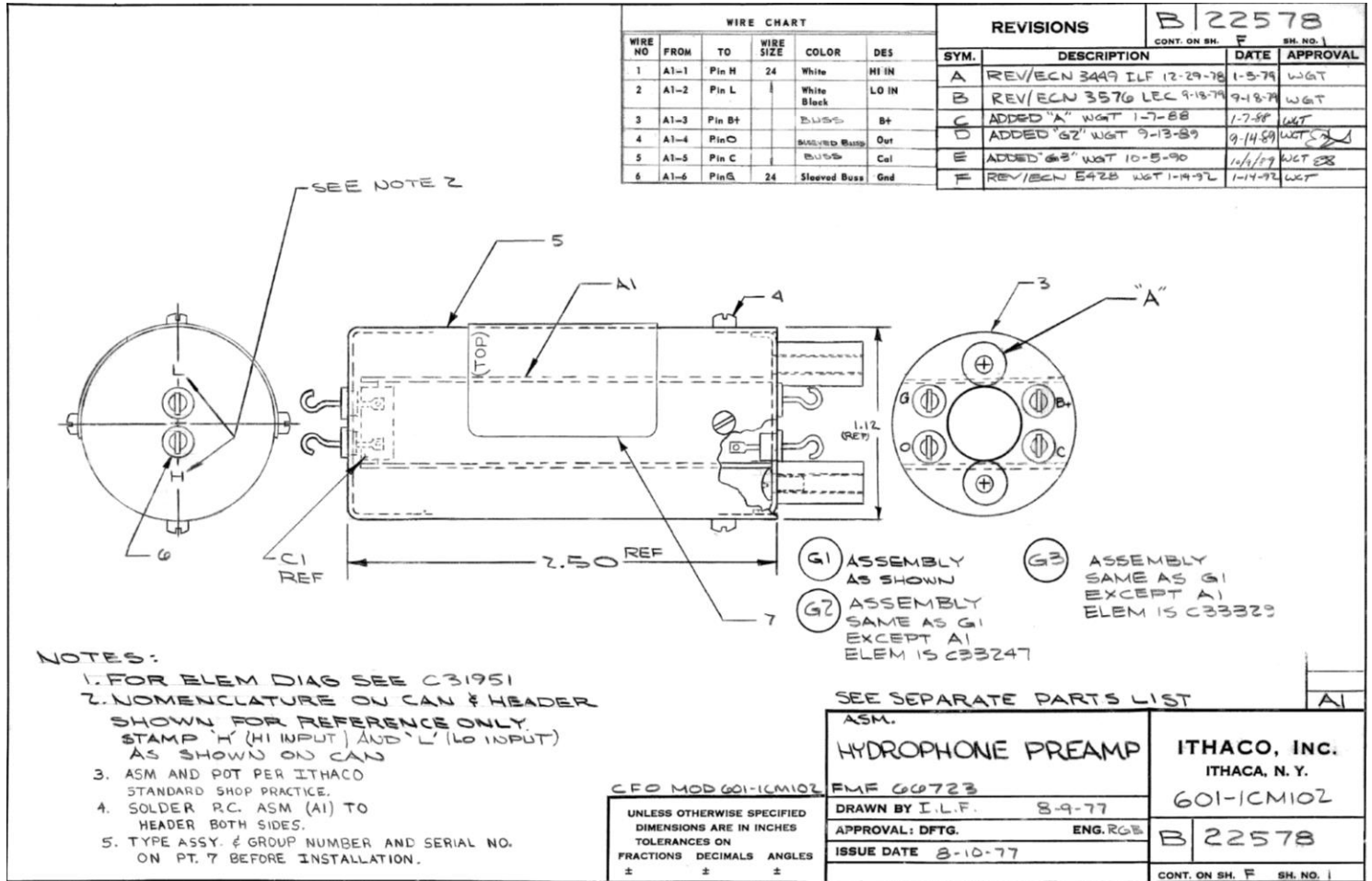
Email: info@dlinstruments.com
www.dlinstruments.com

The Model 601-1CM112 is originally designed for use with a hydrophone in which the transducer was 80 pF. CAL loss was 3 dB nominally, CAL attenuator is 20 dB, and preamplifier gain is 23 dB. It provides high performance, including gain stability, phase stability, and noise over the 20Hz to 100 kHz band while providing a balanced line driving capability.



OUTLINE DRAWING

1.141 inch diameter X 2.5 inch long hermetically sealed cylindrical module. Input on one end, all other functions on opposite end to make it convenient for applications where signal flow is in a straight line.



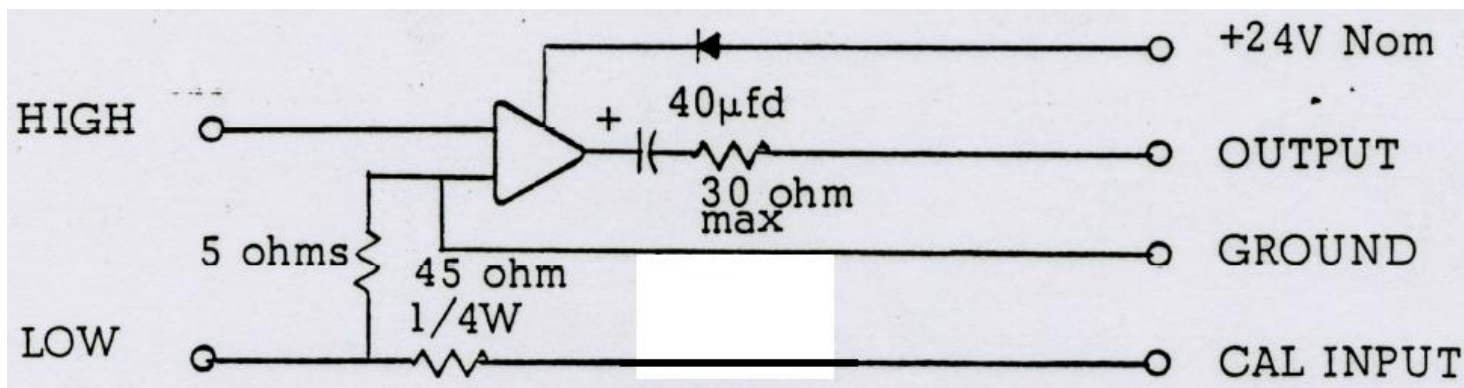
PIN CONNECTIONS

INPUT END:

- L INPUT LO
- H INPUT HI

OUTPUT END:

- O OUTPUT
- G GROUND
- C CAL INPUT
- B+ POWER



601-1CM112 Block diagram

SPECIFICATIONS

GAIN: 23dB

FREQUENCY RESPONSE (100pF source): -3dB at 20 Hz, -1dB @ 100 Hz

INPUT R: 200 Meg Ω // 15 pF

NOISE (100pF source 1 Hz bandwidth):

100 Hz	-136 dB V
1kHz	-155 dB V
10 kHz	-165 dB V
100 kHz	-167 dB V

MIDBAND DISTORTION: 0.25%, 1 volt out, unterminated

MAXIMUM OURPUT, LINEAR: 3.5 V rms, unterminated
1 V rms 50 Ω load

DC RESISTANCE: B+ to Ground (reverse polarity) 10 Meg Ω
Output to Ground 22K Ω

CAL RESISTORS: 20 dB Cal Pad, 50 Ω input

POWER SUPPLY VOLTAGE: 20 V to 28 V

SUPPLY CURRENT: 18 to 25 mA

OPERATING TEMPERATURE -25 °C to +55 °C operation
-55 °C to +85 °C storage

HYDROSTATIC PRESSURE available rated to 1500 psi

For more information please contact:

DL INSTRUMENTS, LLC
646 76 Road
Brooktondale, NY 14817
USA

Phone: (607)539-1108

Email: info@dlinstruments.com

 **Instruments**
www.dlinstruments.com