

# Model 6210H Optical Scanner

## Mechanical and Electrical Specifications

*All angles are in mechanical degrees.*

### Mechanical Specifications

Rated Angular Excursion: 40°  
 Rotor Inertia: 0.018 gm·cm<sup>2</sup>, ± 10%  
 Torque Constant: 2.79x10<sup>4</sup> dyne·cm/amp, +/-10%  
 Maximum Rotor Temperature: 110°C  
 Thermal Resistance (Rotor to Case): 2°C/W

### Electrical Specifications/Drive Mechanism

Coil Resistance: 3.7 Ohms, +/-10%  
 Coil Inductance: 109 μH, +/-10%  
 Back EMF Voltage: 48.7 μV/(deg/sec)  
 RMS Current: 2.4 A at Tcase of 50°C, Max  
 Peak Current: 8 A, Max  
 Small Angle Step Response: 100μs

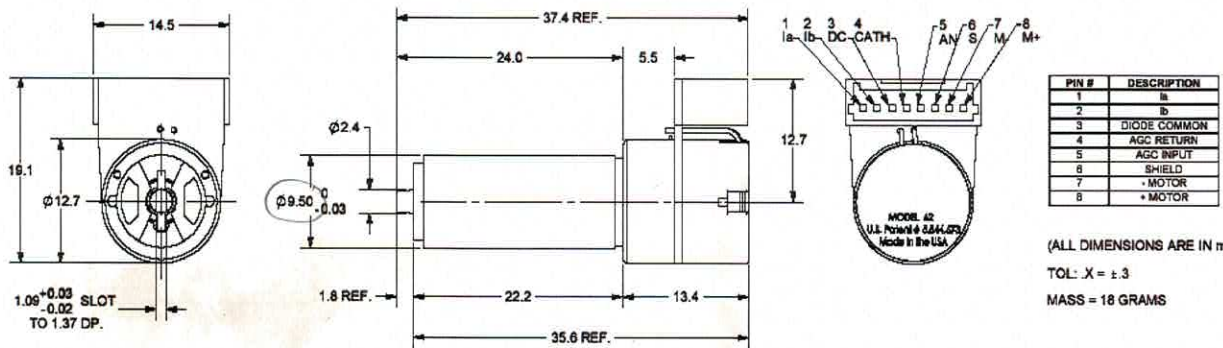


Shown With Mini-CT Connector

$$f = \frac{1}{2\pi L} \approx 1.5 \text{ KHz}$$

### Position Detector

Linearity: 99.9 %, Minimum over 20 degrees, 99.5% Typical, over 40 degrees  
 Scale Drift: 50 PPM/°C, Maximum  
 Zero Drift: 15μrad/°C, Maximum  
 Repeatability, Short Term: 8 microradians  
 Output Signal, Common Mode: 155μA with an AGC current of 30mA, +/-20%  
 Output Signal, Differential Mode: 12μA/°, at common mode current of 155μA, +/-20%

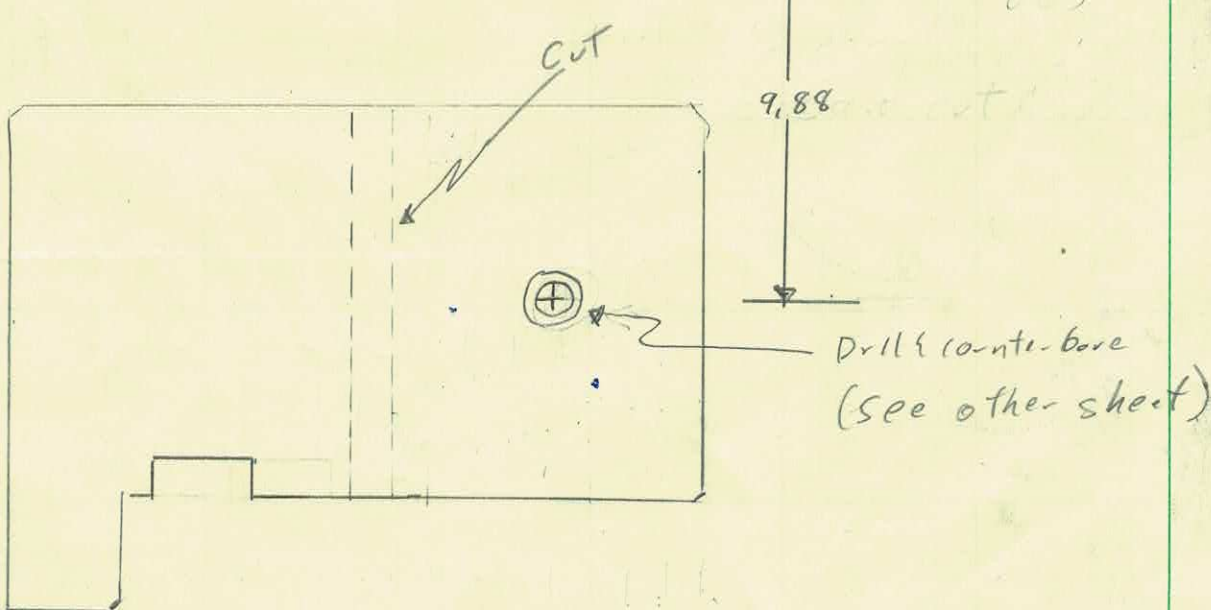
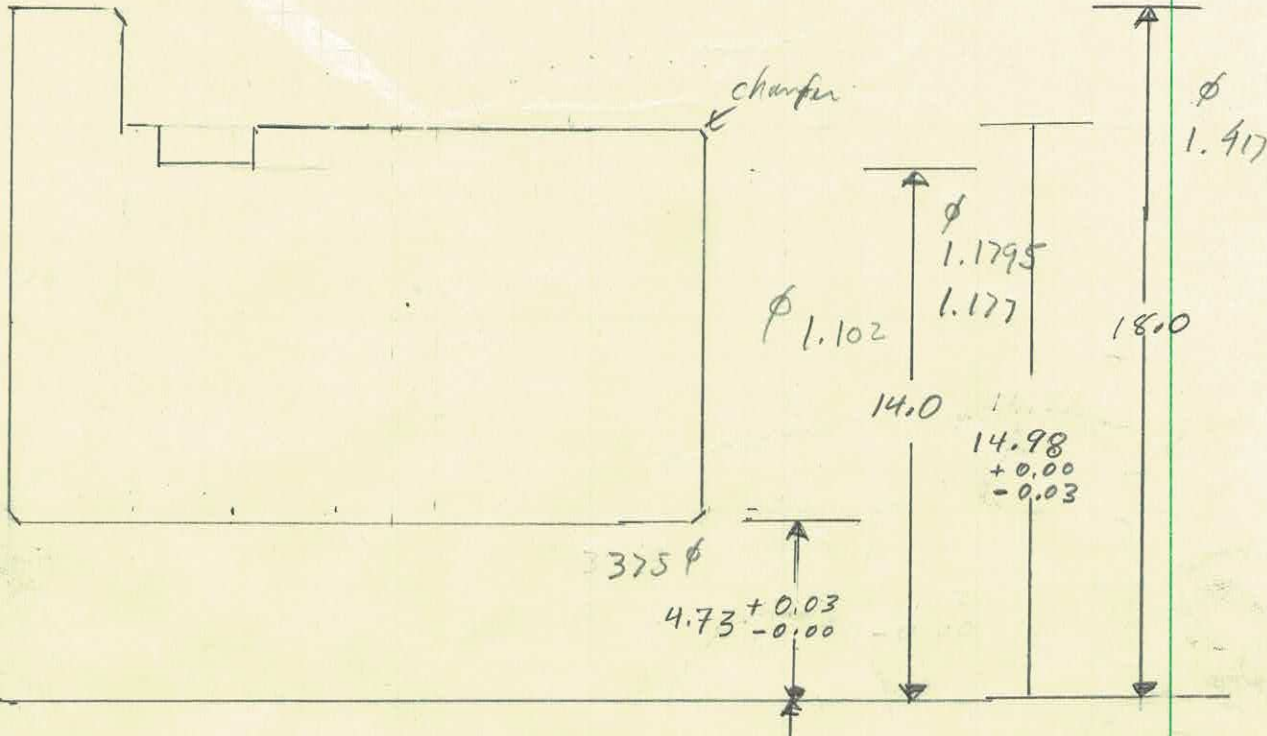


Also, available in 6210HL, 6210HR, 6210HB and 6210HBR connector versions.  
 Specifications are subject to change.

3 parts : A, B

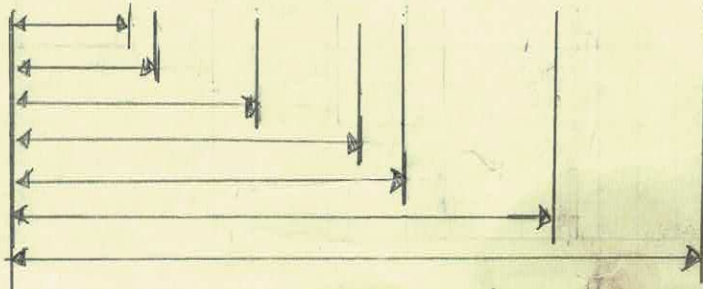
All dimensions in mm

Kleinfield  
PHY0873  
Fab # 3358



858-922-464

- 118 3.00
- 151 3.85
- 242 6.05
- 354 9.0
- 393 10.0
- 551 14.0
- 708 18.00



National Brand

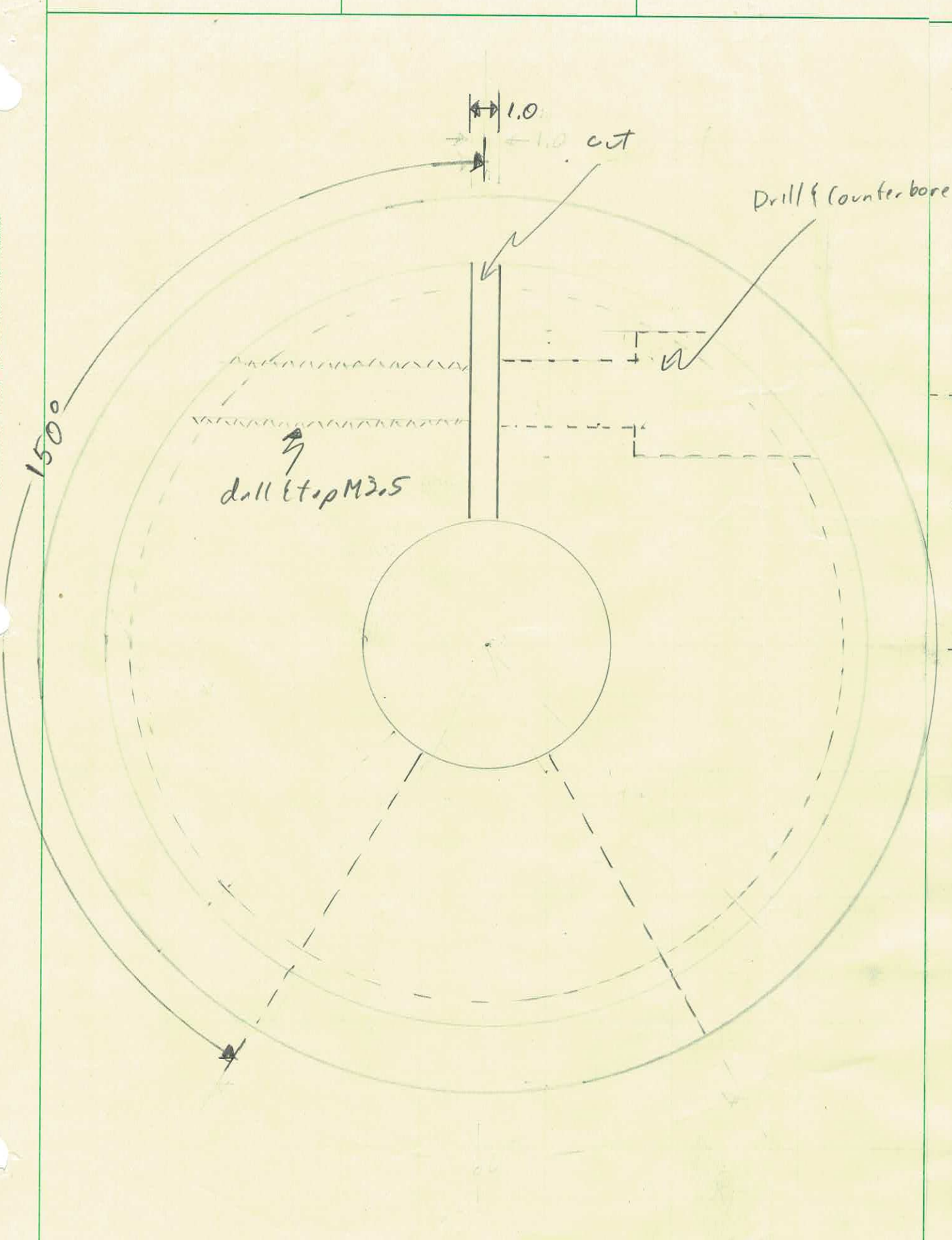
1500

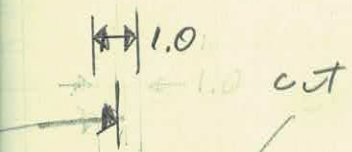
1.0  
1.0 cut

Drill & Counter bore M3

drill & tap M3.5

9.88





Drill & Counterbore M2.5

