

## Photonics Technical Note #5

### 700 Series Temperature Controlled Mounts

#### 700C: Installing the Collimating Lens Assembly (700-42)

The **700C** temperature controlled mount is designed for customers who want to have the option of collimating their divergent light sources (laser diodes). The **700-42** collimating lens assembly, which is purchased separately, is pre-installed into a "lens housing" assembly shown in Fig.1.



Figure 1. 700-42 collimating "lens housing" assembly

Unscrew the lens cartridge from the **700C** mount prior to installation of the **700-42**. First, the black protective lens cover must be removed from the front of the 700C. Gently unscrew the now visible lens cartridge, see Fig. 2.



Figure 2. 700-C mount shown with the black protective lens cover and lens cartridge.

The **700-42** is then installed in the **back** of the lens cartridge that is shown in Fig. 3. The **700-42** is held in the lens cartridge via a set screw that is located on the lens cartridge.



Figure 3. Installing 700-42 in the 700C mount

Reassemble the mount and the collimation can be adjusted by turning the lens cartridge while observing/measuring the collimation.