



Technical Specifications and public offer

For crystals Ce:LiCAF

1. Chemical formula of the matrix LiCaAlF_6 , colquiriite structure.
2. Cerium content 3.5 mol. % (1.2 at. %) (for 97-98% absorption of the 263 nm pump laser beam over the 8 mm path length and polarization as described below)
3. Dimensions are 3 mm thick (± 0.1 mm), 6 mm wide (± 0.1 mm), 8 mm long (± 0.5 mm measured along optical path) as shown in drawing provided below.
4. Crystal is cut for a-axis orientation along the optical path (along the 8 mm dimension in drawing below) and for c-axis orientation parallel to the pump beam polarization (pump is at pi-polarization, along the 6 mm dimension in the drawing below).
5. Ends are Brewster cut for 295 nm (for laser operating from 285 to 310 nm and is end-pumped with quadrupled Nd:YLF at 263 nm.)
6. Brewster ends angle ± 15 minutes and parallel to within 30 seconds.
7. Only the Brewster end faces require polishing as described below, all others surfaces finished with fine grind.
8. Surface quality 10-5 on the end faces.
9. Surface figure $\lambda/8$ at 632.8 nm on the end faces.
10. Clear aperture 85% elliptical (free of defects, inclusions, and striae).
11. Lightly eased crystal edges to prevent chips or fractures forming.
12. No coating.
13. Quantity 10 pieces.
14. Price 2400 USD / pcs

See diagram for additional information.

