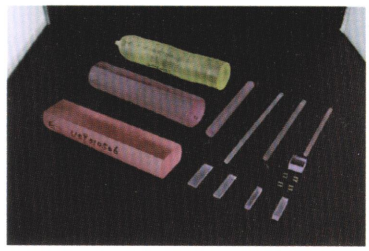
Unioriental®

Quality Ensures the Service!

Laser Crystal

YLF



Unioriental grows Nd, Pr, Er, Ho and no doped YLF crystals using the Czochralski technique. The use of high quality starting materials for crystal growth, whole boule interferometry and precise measurement of bulk losses using transmission spectroscopy assures that each crystal will perform to customer specifications.

Capabilities:

1. Dopant concentrations between 0.5 and 3.0mol%;
2. Rod sizes from 1mm to 25.4mm in diameter and from 1mm to 180mm in length;
3. Large rod and slab dimensions and non-standard dopant concentrations are available upon request;
4. AR, HR and HT coating are available upon request;
5. Orientation of rod axis to crystal a-axis or c-axis within 2 degrees.

Specifications:

Dopant Concentration Tolerance----------0.1%

Parallelism ----------<10 arc seconds

Perpendicularity ----------<5 arc minutes

Chamfer----------0.1mm @45°

Clear Aperture----------95%

Surface Quality----------10/5

Surface Flatness----------λ/10 @ 633nm

Wavefront Distortion----------<7mm diameter: λ/10@633nm

≥7mm diameter: λ/8@633nm

Damage Threshhold----------over 15J/CM^2 TEM00, 10NS, 10HZ

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