

## 4. Laser Crystals

### 4.1. Nd:YAG Laser Crystals



Nd:YAG crystal is the most widely used solid-state laser material today. We offer periodic concentrated crystals. Now, we are able to stably supply Nd:YAG rods with high optical homogeneity, high damage threshold, consistent performance and high processing accuracy. Also we offer periodic concentrated crystals. YAG:Nd have three regions the first one about 5-7 mm in length has low (0.3-0.4 %) Nd-concentration, the middle part contain 1 -1.3 mol.% Nd, the length about 10-12 mm and the last part is like the first one.

#### Standard specifications

Shape: rectangular or round  
 Nd-concentration: 0.5-1.4 mol.% or periodic concentrated  
 End surfaces: Righth angle cut or Brewster cut

#### When Ordering please specify

Shape: rectangular or round  
 Dimensions: (width x height) or diameter, length mm  
 Nd-concentration: 0.5-1.4 mol.% or periodic concentrated  
 End surfaces: Righth angle cut or Brewster cut  
 Description of AR coatings on Side 1 and Side 2

| Code  | Name    | Material | Concentration    | Height (mm) | Width (mm) | Length (mm) | Shape | End Surfaces | Coating                                    | Price   | Currency |
|-------|---------|----------|------------------|-------------|------------|-------------|-------|--------------|--|---------|----------|
| LAC15 | Crystal | Nd:YAG   | 0,5-1,1 Nd atm.% | 3           | 3          | 3           | Rect. |              | S1: AR@808<br>HR@1064 S2:<br>HT@808AR@1064 | 73,800  | JPY      |
| LAC16 | Crystal | Nd:YAG   | 0,5-1,1 Nd atm.% | 3           | 3          | 4           | Rect. |              | S1: AR@808<br>HR@1064 S2:<br>HT@808AR@1064 | 75,000  | JPY      |
| LAC2  | Crystal | Nd:YAG   | 0,5-1,1 Nd atm.% | 2           |            | 70          | Round |              | AR/AR@1064 nm                              | 93,000  | JPY      |
| LAC3  | Crystal | Nd:YAG   | 0,5-1,1 Nd atm.% | 3           |            | 75          | Round |              | AR/AR@1064 nm                              | 96,000  | JPY      |
| LAC4  | Crystal | Nd:YAG   | 0,5-1,1 Nd atm.% | 3           |            | 80          | Round |              | AR/AR@1064 nm                              | 111,000 | JPY      |
| LAC5  | Crystal | Nd:YAG   | 0,5-1,1 Nd atm.% | 3           |            | 95          | Round |              | AR/AR@1064 nm                              | 117,000 | JPY      |
| LAC6  | Crystal | Nd:YAG   | 0,5-1,1 Nd atm.% | 3           |            | 104         | Round |              | AR/AR@1064 nm                              | 144,000 | JPY      |
| LAC12 | Crystal | Nd:YAG   | 0,5-1,1 Nd atm.% | 4           |            | 50          | Round |              | AR/AR@1064 nm                              | 97,500  | JPY      |
| LAC7  | Crystal | Nd:YAG   | 0,5-1,1 Nd atm.% | 4           |            | 104         | Round |              | AR/AR@1064 nm                              | 147,000 | JPY      |
| LAC13 | Crystal | Nd:YAG   | 0,5-1,1 Nd atm.% | 5           |            | 20          | Round |              | AR/AR@1064 nm                              | 90,000  | JPY      |
| LAC14 | Crystal | Nd:YAG   | 0,5-1,1 Nd atm.% | 5           |            | 50          | Round |              | AR/AR@1064 nm                              | 129,000 | JPY      |
| LAC8  | Crystal | Nd:YAG   | 0,5-1,1 Nd atm.% | 5           |            | 90          | Round |              | AR/AR@1064 nm                              | 148,500 | JPY      |
| LAC9  | Crystal | Nd:YAG   | 0,5-1,1 Nd atm.% | 5           |            | 152         | Round |              | AR/AR@1064 nm                              | 183,000 | JPY      |
| LAC1  | Crystal | Nd:YAG   | 0,5-1,1 Nd atm.% | 6.3         |            | 75          | Round |              | AR/AR@1064 nm                              | 144,000 | JPY      |
| LAC10 | Crystal | Nd:YAG   | 0,5-1,1 Nd atm.% | 6.35        |            | 100         | Round |              | AR/AR@1064 nm                              | 186,000 | JPY      |
| LAC11 | Crystal | Nd:YAG   | 0,5-1,1 Nd atm.% | 8           |            | 120         | Round |              | AR/AR@1064 nm                              | 255,000 | JPY      |