

# Er: YAG CRYSTALS



Er:YAG is an excellent laser crystal. It has wide applications in medical laser systems and others.

| Specification           |  |
|-------------------------|--|
| Dopant Concentration    | Er: ~50 at%  |
| Orientation             | within 5°  |
| Wavefront Distortion    | $\leq 0.125\lambda/\text{inch}$ [ @1064nm ]                    |
| Extinction Ratio        | $\geq 25$ dB   |
| Rod Sizes               | Diameter: 3 ~ 6mm, Length: 50 ~ 120mm Upon request of customer |
| Dimensional Tolerances  | Diameter $+0.00"/-0.002"$ mm Length: $\pm 0.02"$               |
| Barrel Finish           | Ground Finish: 400 Grit  |
| Parallelism             | $\leq 10"$   |
| Perpendicularity        | $\leq 5'$  |
| Flatness                | $\lambda/10$   |
| Surface Quality         | 10 / 5   |
| Chamfer                 | $0.006" \pm 0.002"$ at $45^\circ \pm 5^\circ$                  |
| AR Coating Reflectivity | $\leq 0.25\%$ (@2940nm)  |
| Single Pass Loss        | $< 3 \times 10^3 \text{cm}^{-1}$                               |
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