

Erbium yttrium-aluminum-garnet (Er:YAG) laser rod for using in medical laser device, specifically for laser perforator.

Er:YAG Crystal Rod Specification

Chemical Formula	Er:Y ₃ Al ₅ O ₁₂
Dopant concentration	Er: ~50%
Orientation	[111]
Wavefront distortion	< $\lambda/2$ @ 632.8 nm
Diameter	3 mm
Length	34 mm
Parallelism	≤ 10 arc seconds
Perpendicularity	≤ 5 arc minutes
S1: Radius	Flat
S1: coating	R≥99.9%@2940 nm
S2: Radius	Flat
S2: coating	R=85%@2940nm
Laser Wavelength	2940nm
Surface Quality	Scratch-dig 10-5 per MIL-O-13830A
Chamfer	0.1 ± 0.05 mm at 45° ± 5°
Shape	round (cylindrical)

