



Er, Yb: Glass

Er,Yb: glass can emit 1535 nm laser and has high stimulated emission cross section, low fluorescence quenching effect and excellent thermal and mechanical properties.

Classification: Laser Crystals

Detailed introduction

E/Yb: glass can enit 1555 m laser and has high stimulated emission cross section, low fluorescence quenching effect and excellent thermal and mechanical properties.

1535/m laser is safe for human systs and easy to desect. Hinks a very low loss in 5000 flor transmission and good performance in percentage remoke, flog and huma. It is widely used in military and civil fields.

The leaver made with EVP-Click bas has a political in initiatation, high dependency, high power, click. The systems in one samely, residuel and easy to marriation.

APPLICATIONS

APPLICATIONS

Laser ranging

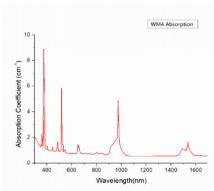
Laser radar

Target designation

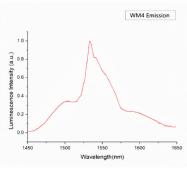
Optical fiber communication

Emvironmental sensing and mo

Absorption Spectrum



Emission Spectrum



Specification		
Size	Diameter:3~12.7mm,Length:3~150mm	
Dimension tolerance	±0.05 mm	
Flatness	<n8@632 nm<="" th=""><th></th></n8@632>	
Wavefront distortion	<).4@632 nm	
surface quality	10/5	
Parallelism	107	
Perpendicularity	15'	
Clear aperture	>90%	
Chamfee	<0.1v46°	

Physical and Chemical Properties				
Model	W1	#2		
The cross section of stimulated emission (10-20cm ²)	0.8	0.75		
Fluorescence lifetime (ms)	7.7-8.0	7.7-8.2		
Wavelength (nm)	1535	1535		
Transition temperature (°C)	1.524	1.528		
Softening temperature (°C)	1.532	1.536		
Linear thermal expansion coefficient (10°7/K) (20 - 100 °C)	556	530		
Linear thermal expansion coefficient (10 ⁻⁷ /K) (100 − 300 °C)	605	573		
Thermal coefficient of Optical path length (10 ⁻⁶ /K)(20~100°C)	87	82		
Thermal conductivity coefficient (25 °C) (W/mK)	95	96		
Density (g/cm ³)	3.0	2.83		
Chemical durability	52	82		

Keywords: YAG

Previous: Yb : YAG Next: Co: Soinel