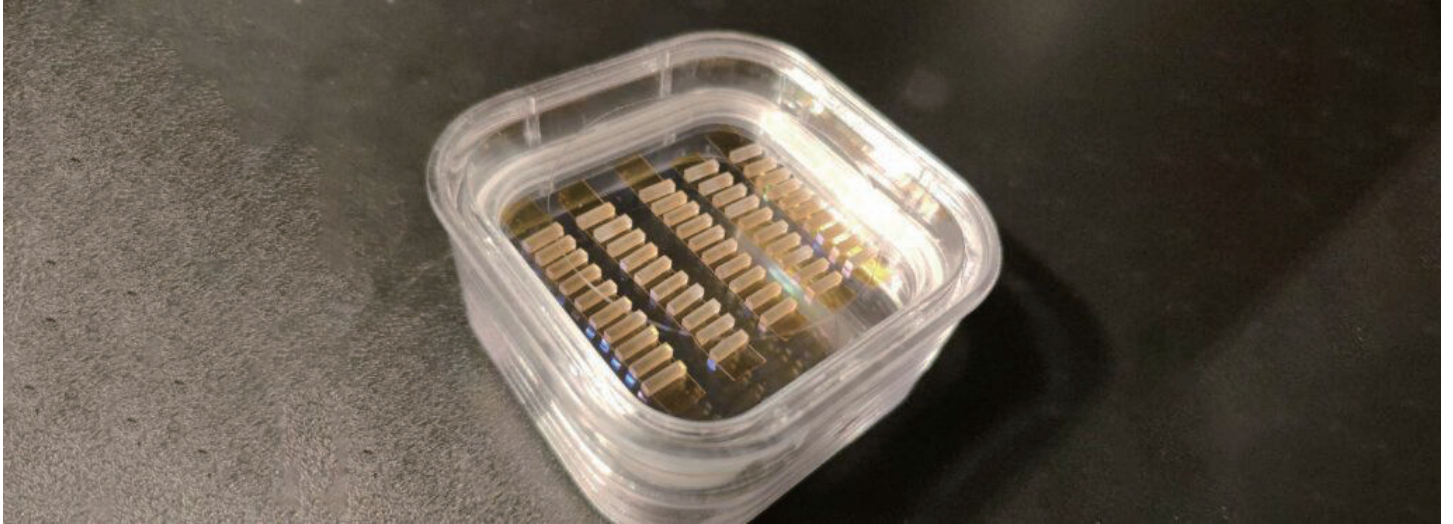


Glass+Er,Yb:glass+Glass



DESCRIPTION

Glass+Er,Yb:glass+Glass bonding crystal is a bonding crystal formed by bonding pure glass at both ends of Er and Yb:glass, which can effectively improve the comprehensive performance of Er and Yb:glass lasers.

Glass+Er,Yb:glass+Glass bonded crystals are formed by bonding at both ends, which can effectively improve the thermal effect of Er,Yb:glass crystals, reduce the thermal lens effect formed during laser pumping, improve the beam quality of the laser, improve the output efficiency of 1535nm laser, improve the output energy stability of the laser, and improve the service life of the laser.

CRYLINK uses surface activation bonding technology, which is a bonding technology at low or normal temperature. The typical features are surface cleaning and surface activation. Before bonding, the bombardment of fast atoms or ion beams on the bonding surface can effectively increase the bonding strength and achieve high-quality bonding between inorganic materials, metals and semiconductor materials. Compared with the high-temperature thermal bonding method, the surface activation bonding technology has higher bonding force interface, better optical absorption loss and surface shape change control, while the impurities on the thermal diffusion bonding surface cannot be removed and are bonded on the bonding surface. Surface activated bonding technology has the advantages of removing various polishing residual components, removing organic pollutants, removing surface oxide layer, breaking chemical bonds of materials, and improving activation energy.

The produced Glass+Er,Yb:glass+Glass bonding crystal has high bonding strength, small bonding surface absorption loss (generally less than 20ppm) and small change of bonding surface shape (bonding surface shape $< \lambda/8$). The shape of the bonded crystal can be rod, plate, waveguide or sandwich. Various types of coatings can be provided at both ends of the bonded crystal, such as two end antireflection films AR@1535nm, or s1: HR@1535nm+AR@940nm, S2: AR@1535+HR@940nm, etc. Glass+Er,Yb:glass+Glass bonded crystals are widely used in rangefinder, radar, target recognition and other fields.



Glass+Er,Yb:glass+Glass

FEATURES

- It can effectively improve the thermal effect of Er, yb:glass crystals
- Reduce the thermal lens effect formed during laser pumping
- Improve the beam quality of laser
- Improve 1535nm laser output efficiency
- It can improve the stability of the output capacity of the laser and the service life of the laser

APPLICATIONS

- Distance measuring instrument
- Radar
- Target identification

PRODUCT PARAMETERS

Glass+Er,Yb:glass+Glass			
Materials	Glass	Er,Yb:glass	Glass
Concentrations	/	0.5%\1.0%\1.5%	/
Structure	Rods/Slabs/Sandwich/Waveguide/		
End-face Configuration	Flat/Convex/Wedge		
Side Configuration	Polish/Fine Ground		
Coating available	AR@1535nm	/	AR@1535nm
	HR@1535nm+AR@940nm	/	AR@1535+HR@940nm
	others	/	others

