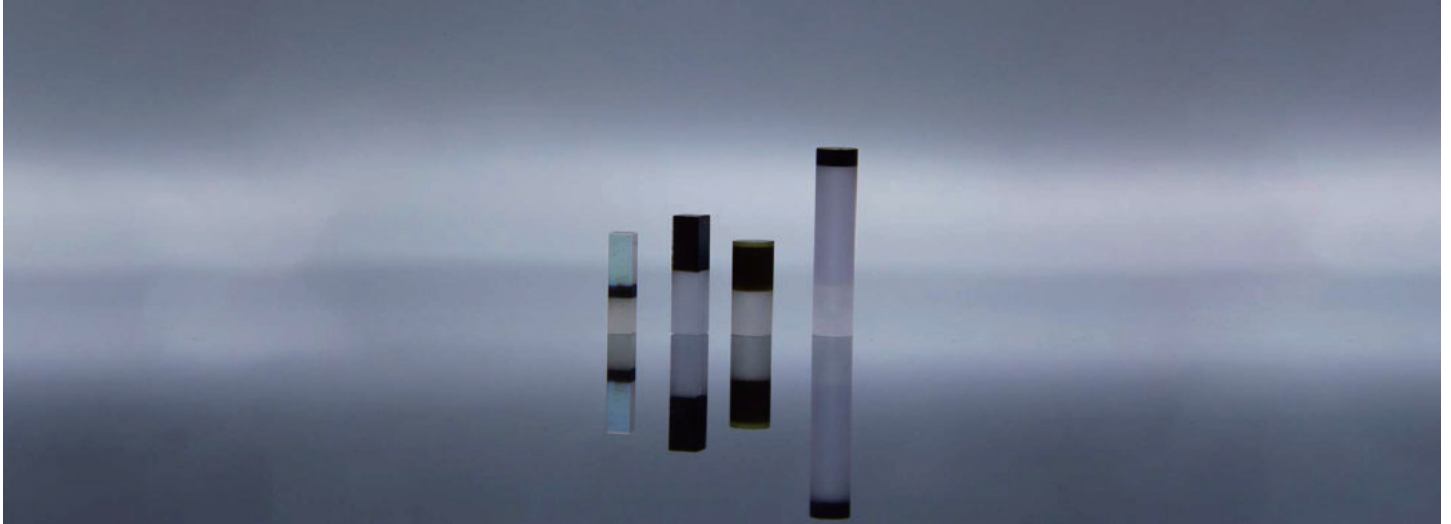


YAG+Cr,Tm,Ho:YAG+YAG



DESCRIPTION

YAG+Cr,Tm,Ho:YAG+YAG bonded crystals are bonded crystals formed by bonding pure YAG at both ends of Cr,Tm,Ho:YAG, which can effectively improve the comprehensive performance of Cr,Tm,Ho:YAG lasers.

The thermal conductivity of Cr,Tm,Ho:YAG is 14w/m/K, 20°C, 10.5w/m/K, 100°C, and the thermal conductivity of pure YAG crystal is 14w/m/ K@20°C, 10.5W/m/ K@100°C, both ends are bonded to form YAG+Cr,Tm,Ho:YAG+YAG bonded crystals, which can effectively improve the thermal effect of Cr,TM,Ho:YAG crystals, reduce the thermal lens effect formed during laser pumping, good chemical stability, durability, UV resistance, good thermal conductivity, high damage threshold (>500mw/cm²), easy operation, improve the beam quality of the laser, improve the output efficiency of 2100nm laser, and improve the stability of the output capacity of the laser, Improve the service life of the laser.

The produced YAG+Cr,Tm,Ho:YAG+YAG bonding crystals have 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/ AR@2080nm, or s1: HR@2080nm, S2: PR@2080nm, etc. YAG+Cr,Tm,Ho:YAG+YAG bonded crystals are widely used in medical, lidar, military and other fields.

FEATURES

- It can effectively improve the thermal effect of Cr,Tm,Ho:YAG crystals
- Reduce the thermal lens effect formed during laser pumping
- Good chemical stability, durability, UV resistance, good thermal conductivity, high damage threshold, easy operation and improved laser beam quality
- Improve 2100nm laser output efficiency
- It can improve the stability of the output capacity of the laser and the service life of the laser



YAG+Cr,Tm,Ho:YAG+YAG

APPLICATIONS

- Medical treatment
- Lidar
- Military

PRODUCT PARAMETERS

YAG+Cr,Tm,Ho:YAG+YAG			
Materials	YAG	Cr,Tm,Ho:YAG	YAG
Concentrations	/	Cr:0.3-1.2%, Tm:5-6%, Ho:0.3-0.4%	
Structure	Rods/Slabs/Sandwich/Waveguide/		
End-face Configuration	Flat/Convex/Wedge		
Side Configuration	Polish/Fine Ground		
	AR@2080nm		AR@2080nm
	HR@2080nm		PR@2080nm
	others	/	others

