LASERTEC INC



1535 nm Micro-Chips laser core

Er, Yb:glass+Co: spinel bonding crystal is a bonding crystal formed by bonding co: spinel at the end of Er, Yb: glass. It can effectively improve the comprehensive performance of Er, Yb: glass laser. We design a special structure to reduce the thermal effect to meet high energy density lasers.

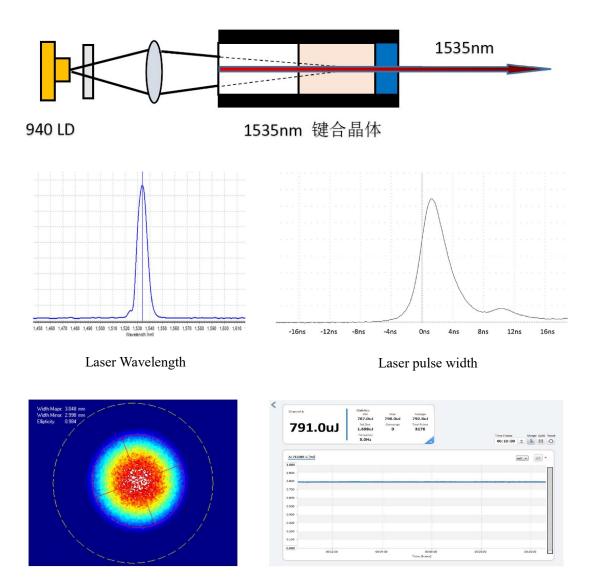
Bonding to form Er, Yb :glass+Co: spinel bonding crystals have the following effects:

- 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 the 1535 nm laser
- Improve the stability of the output capacity of the laser
- Improve the service life of the laser

we uses surface activation bonding technology, which is a bonding technology at low or normal temperatures. The typical features are surface cleaning and surface activation.

Er, Yb :glass+Co: spinel bonded crystals have high bonding strength, small bonding surface absorption loss (generally less than 20ppm) and small change in bonding surface shape (bonding surface shape <lamda/8).

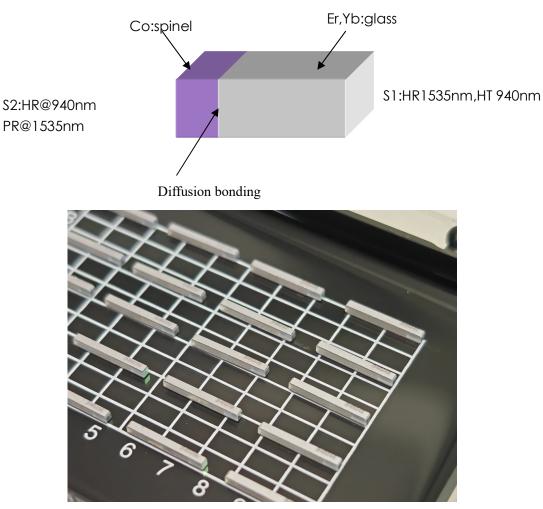
Typically Application: Laser Lidar, Laser rangefinders etc.



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Iterm	Grade	Part No.	Dimension (mm)	Output energy@25℃	Frequency	Pulse width	Beam size	Stability	Divergence angle
1	40uj	DB1535-40-01	1.4x1.0x5.5	40uj@4A 0.35ms	1KHz	4+/-1ns	100um	<3%	<16mrad
2	100uj	DB1535-100-02	1.4x1.0x7	100uj@7A 1.5ms	10KHz	4+/-1ns	200um	<3%	<16mrad
3	200uj	DB1535-200-02	1.4x1.0x8	200uj@10A 1.5ms	10KHz	4+/-1ns	250um	<3%	<16mrad
4	300uj	DB1535-300-02	1.4x1.0x10	300uj@12A 2ms	10KHz	4+/-1ns	300um	<3%	<16mrad
5	500uj	DB1535-500-02	1.4x1.0x13	500uj@20A 2ms	10KHz	5+/-1ns	400um	<3%	<16mrad
6	750uj	DB1535-750-01	2.0x1.6x17	750uj@25A 2ms	5KHz	6+/-1ns	500um	<3%	<16mrad

For higher energy 1535nm laser that we can provide ErYb:Glass, Co: Spinel per customer design.

If you are interested please contact us soon: mail to sales@lcoptical.com or lasertec01@gmail.com

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