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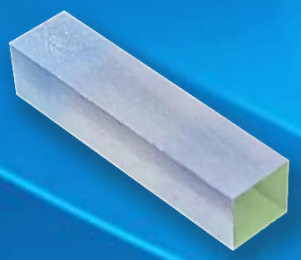
Microchip Composite Crystals/Glass Components



Er-Yb: Glass+ Co: Spinel
Glass + Er-Yb: Glass + Co: Spinel

GENERAL DESCRIPTION

The microchip composite component, especially in the form of Er-Yb: Glass +Co: Spinel passively q-switched microchips have been used for 1.5μm lasers in remote sensing, ranging and imaging applications due to their compact size and the incorporation of both the lasing material and q-switch into a monolithic element. The approach minimizes system complexity and system size, and maximizes efficiency. The Glass+Er-Yb: Glass is available in two-segment configurations with the optional inclusion of additional undoped Glass part.

FEATURES

- Innovative high-temperature bonding process for strong bonds
- Reduce thermal end-effects
- Compact sizes
- External surface coatings

SERVICE

We design and develop composite crystals which are optimized to meet the specific requirements of your applications.

APPLICATIONS

- Compact 1.5μm DPSS lasers
- High performance DPSS lasers

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Specifications

Er-Yb: Glass + Co: Spinel

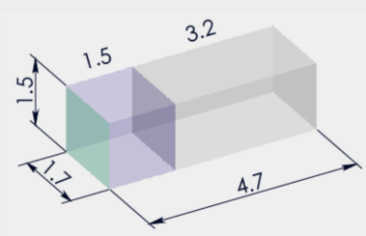
Parameter	
Dopant type, Concentration	Er: 1.0wt.%; Yb: 18wt. %
Cross section	1.5mm x 1.7mm
Er-Yb length	3.2mm
Co: spinel length	1.5mm
End-face configuration	Flat/ Flat
Side specifications	Cut
Coating	S1:HR@1535nm+AR@940nm; S2: PR@1535nm

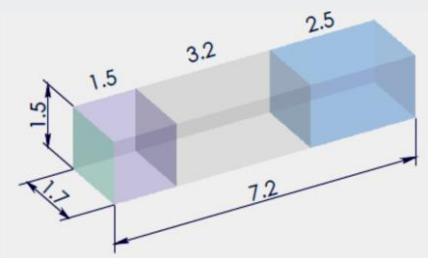
Glass + Er-Yb: Glass + Co: Spinel

Parameter	
Dopant type, Concentration	Er: 1.0wt.%; Yb: 18wt. %
Cross section	1.5mm x 1.7mm
Undoped length	2.5mm
Er-Yb length	3.2mm
Co: spinel length	1.5mm
End-face configuration	Flat/ Flat
Side specifications	Cut
Coating	S1:HR@1535nm+AR@940nm; S2: PR@1535nm

Dimensions

Unit: mm





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