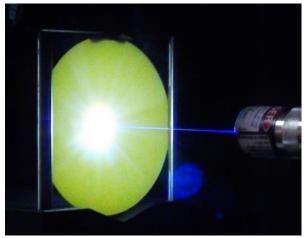


What's EPOCH?

EPOCH is the BEST Phosphor

for realizing true white light source with the highest brightness.

EPOCH has a chinese-script like structured, crystalline composite consisted of single crystalline Ce:YAG phosphor and light guide. Two materials are continuously tangled with each other without any organic binder, air space, nor boundary layer. Yellow light emitted from Ce:YAG, which is excited by blue LEDs and LDs,

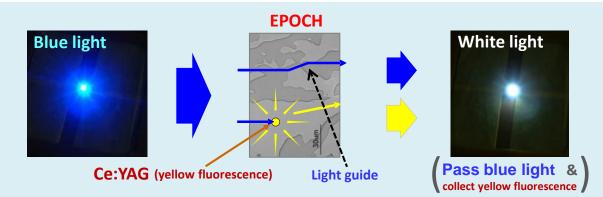


is effectively guided via. transparent light guide. Thus, white light emission is obtained in the most efficient way, combined with yellow and blue lights in **EPOCH**.

Advantages

- ✓ High Thermal Conductivity
- ✓ Ultra Brightness
- ✓ High Durability

Principle of EPOCH phosphor



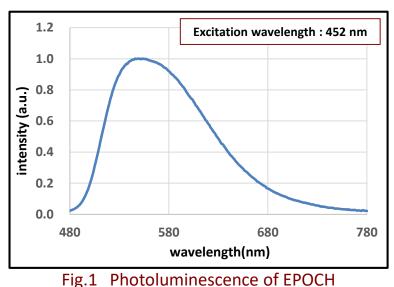


Oxide Corporation

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Measurement example of EPOCH

Ce:YAG structure	EPOCH	single crystal
thermal conductivity (w/mK)	~20	13
mechanical strength	strong	medium
heat resistance	strong	strong
light propagation	zigzag mixing	straight
Table Comparison of advanced Ce:YAG phosphors		



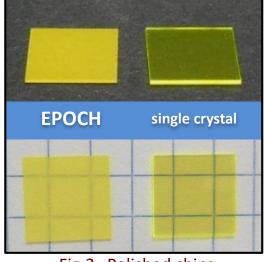


Fig.2 Polished chips

Applications

- Automobile headlight
- Projector
- Solid-state illumination









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