



FEE

(<https://www.fee-io.de/>)

TGG

TGG is a Faraday rotator crystal with a high Verdet constant, used mainly in optical isolators.

Material Parameters	
Host crystal	Tb ₃ Ga ₅ O ₁₂
Lattice type	garnet, cubic
Crystallographic orientation	[111] – other orientations on request
Verdet constant	-40 rad T ⁻¹ m ⁻¹ @ 1064 nm -134 rad T ⁻¹ m ⁻¹ @ 632 nm
Index of refraction	1,95 @ 1062 nm

Elements

- rods with length up to 70 mm, diameter 1 to 10 mm (standard specifications (<https://www.fee-io.de/standard-specifications/>))
- extinction ratio >40 db available
- optical transmission depends on the required wavelength range, material with <math><0.002\text{cm}^{-1}</math> is available contact (<http://fee-io.de/contact/>)us for more information

Coatings

- Coatings upon request

SEARCH:



(<https://www.fee-io.de/>)

PAGES:

Crystals and Services (https://www.fee-io.de/crystals_services/)

TGG (https://www.fee-io.de/crystals_services/tgg/)

Nd:YAG (https://www.fee-io.de/crystals_services/ndyag/)

Yb:YAG (https://www.fee-io.de/crystals_services/ybyag/)

Cr⁴⁺:YAG (https://www.fee-io.de/crystals_services/cr4yag/)

CTH:YAG (https://www.fee-io.de/crystals_services/cthyag/)

Segmented Crystals (https://www.fee-io.de/crystals_services/segmented-crystals/)

Standard Specifications (<https://www.fee-io.de/standard-specifications/>)

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