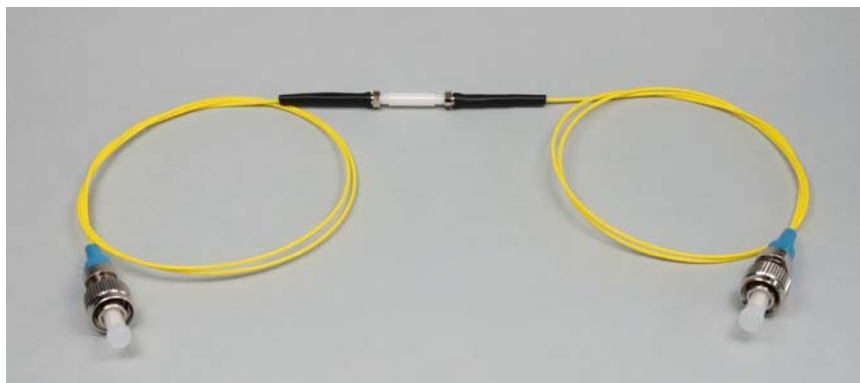


SA – saturable absorber

product overview

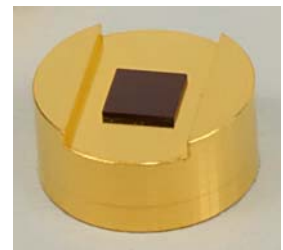
- saturable absorber for use in transmission applications
- for passive mode-locking of solid state, ring or fiber ring lasers

SA 1020	laser wavelength absorptance modulation depth relaxation time saturation fluence	$\lambda = 980 \text{ nm} - 1040 \text{ nm}$ $A_0 = 40 \%$ $\Delta T = 25 \%$ $\tau \sim 500 \text{ fs}$ $\Phi_{\text{sat}} = 300 \mu\text{J}/\text{cm}^2$
SA 1064	laser wavelength absorptance modulation depth relaxation time saturation fluence	$\lambda = 1030 \text{ nm} - 1090 \text{ nm}$ $A_0 = 25 - 40 \%$ $\Delta T = 13 - 25 \%$ $\tau \sim 500 \text{ fs}$ $\Phi_{\text{sat}} = 300 \mu\text{J}/\text{cm}^2$
SA 1550	laser wavelength absorptance modulation depth relaxation time saturation fluence	$\lambda = 1500 \text{ nm} - 1600 \text{ nm}$ $A_0 = 25 \%$ $\Delta T = 15 \%$ $\tau \sim 2 \text{ ps}$ $\Phi_{\text{sat}} = 300 \mu\text{J}/\text{cm}^2$
SA 2000	laser wavelength absorptance modulation depth relaxation time saturation fluence	$\lambda = 1900 \text{ nm} - 2100 \text{ nm}$ $A_0 = 1 - 43 \%$ $\Delta T = 0.6 - 23 \%$ $\tau \sim 1 \text{ ps}$ $\Phi_{\text{sat}} = 300 \mu\text{J}/\text{cm}^2$

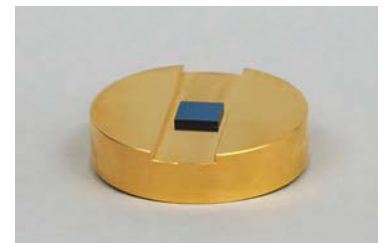


Other wavelengths and parameters on request.

mounting types



12.7 mm \varnothing - Cu-Mount with
 \varnothing 4 mm hole



25.0 mm \varnothing - Cu-Mount with
 \varnothing 4 mm hole



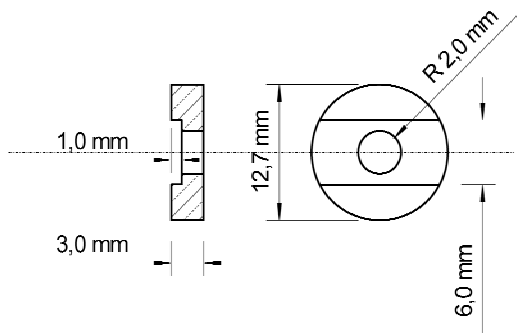
backside of 25.0 mm \varnothing - Cu-Mount
with \varnothing 4 mm hole



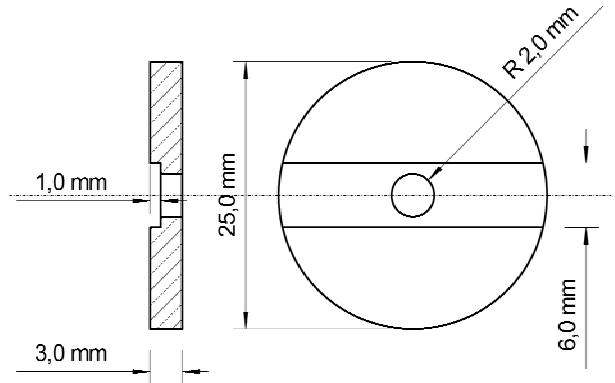
fiber coupled SA

- Chip area: 5 mm x 5 mm
- Chip thickness: 625 μ m semi – insulating GaAs, other thickness on request
- Front side protection: AR coating
- Back side: polished and AR coated
- Mounting:
- unmounted
 - glued on:
 - 12.7 mm \varnothing Cu-mount with \varnothing 4 mm hole
 - 25.0 mm \varnothing Cu-mount with \varnothing 4 mm hole
 - fiber coupled (SMF, PM)
 - mounting on custom mounts on request

Cu-Mount \varnothing 12.7 mm with \varnothing 4 mm hole:

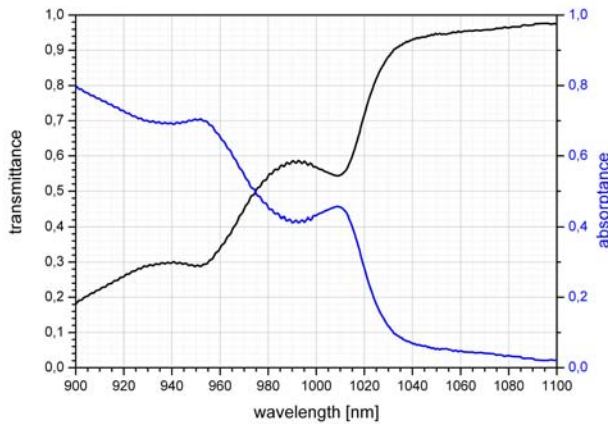


Cu-Mount \varnothing 25.0 mm with \varnothing 4 mm hole:

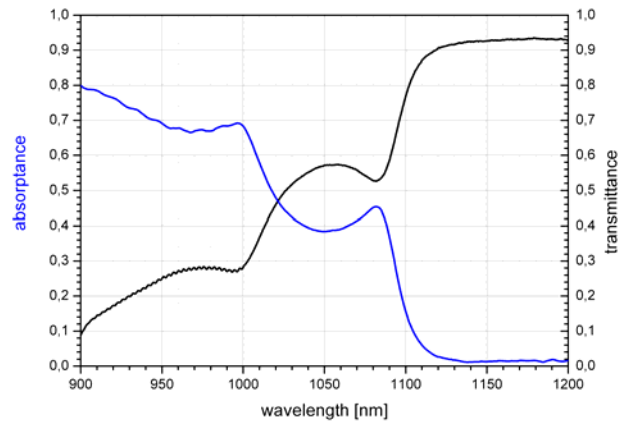


Spectral transmission / absorption:

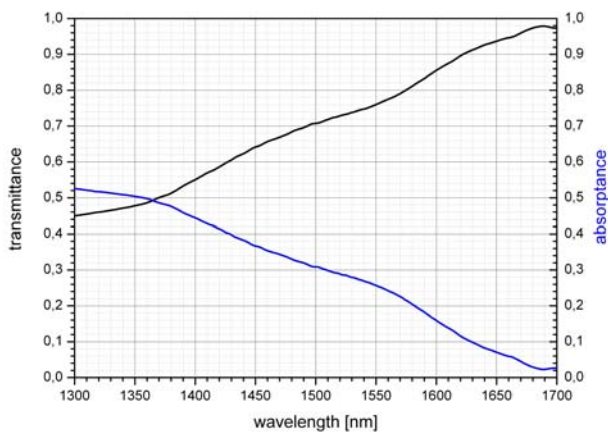
SA 1020-40-X



SA 1064-40-X



SA 1550-25-X



SA 2000-25-X

