

SA – saturable absorber



product overview

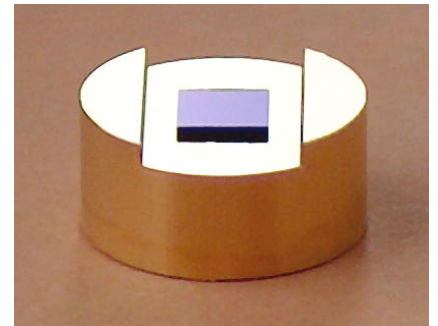
- saturable absorber for use in transmission applications
- for passive mode-locking of solid state, ring or fiber ring lasers

SA 1020	laser wavelength	$\lambda = 980 \text{ nm} - 1040 \text{ nm}$
	absorptance	$A_0 = 40 \%$
	modulation depth	$\Delta T = 25 \%$
	relaxation time	$\tau = 500 \text{ fs}$
	saturation fluence	$\Phi_{\text{sat}} = 300 \mu\text{J}/\text{cm}^2$

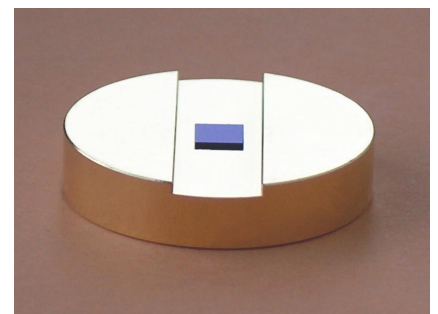
SA 1064	laser wavelength	$\lambda = 1030 \text{ nm} - 1090 \text{ nm}$
	absorptance	$A_0 = 40 \%$
	modulation depth	$\Delta T = 25 \%$
	relaxation time	$\tau = 500 \text{ fs}$
	saturation fluence	$\Phi_{\text{sat}} = 300 \mu\text{J}/\text{cm}^2$

SA 2000	laser wavelength	$\lambda = 1900 \text{ nm} - 2100 \text{ nm}$
	absorptance	$A_0 = 1 \%$
	modulation depth	$\Delta T = 0.6 \%$
	relaxation time	$\tau = 500 \text{ fs}$
	saturation fluence	$\Phi_{\text{sat}} = 300 \mu\text{J}/\text{cm}^2$

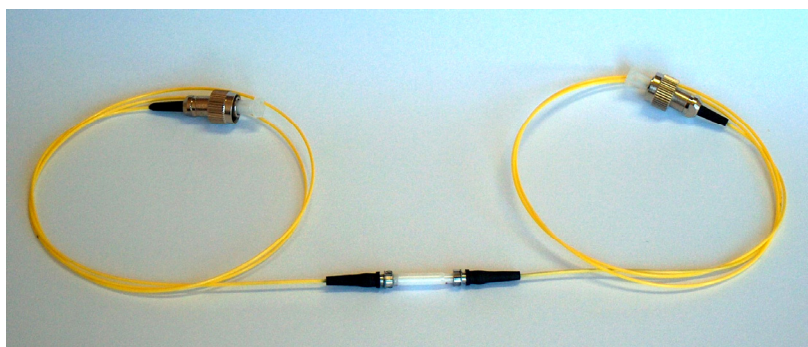
mounting types



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



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

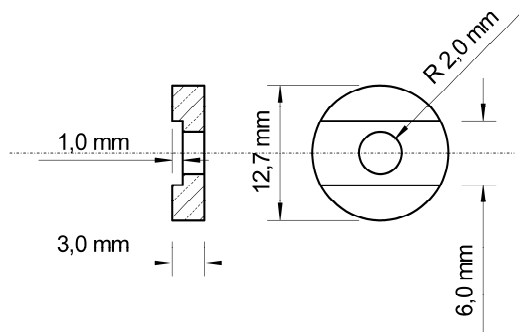


fiber coupled SA

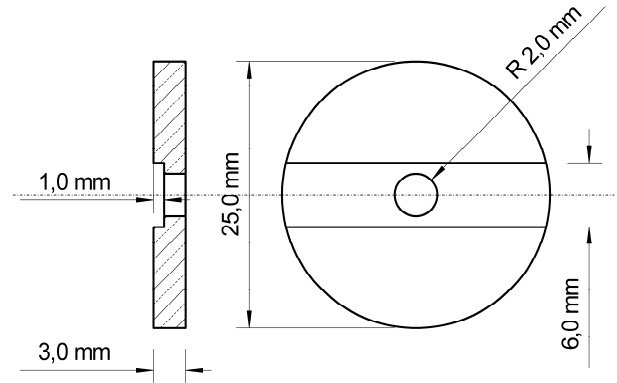
Other wavelengths and parameters on request.

Chip area:	5 mm x 5 mm
Chip thickness:	400 μm semi – insulating GaAs, other thickness on request
Front side protection:	AR coating
Back side:	polished and AR coated
Mount:	▪ unmounted ▪ 12.7 mm $\varnothing$ ▪ 25.0 mm $\varnothing$ ▪ fiber coupled (SMF, PM)

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

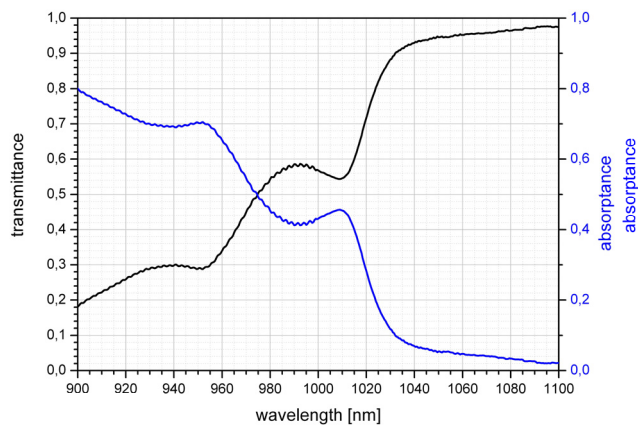


Cu-Mount $\varnothing$ 25.0 mm with $\varnothing$ 4 mm hole:

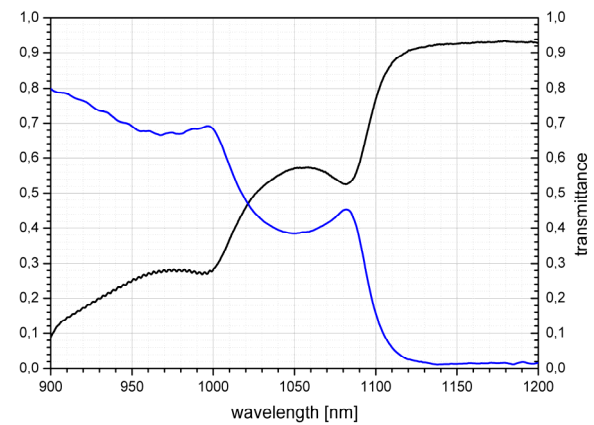


Spectral transmission / absorption:

SA 1020-40-X



SA 1064-40-X



SA 2000-1-X

