SA – Saturable Absorber

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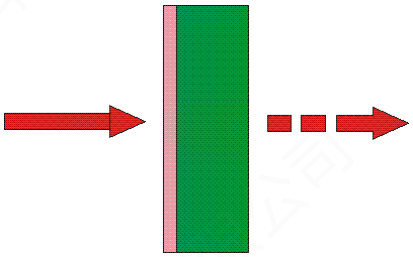
Product Overview

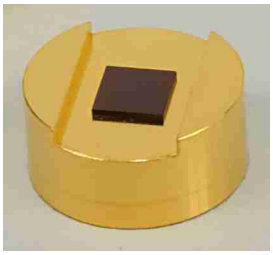
- Saturable absorber for use in transmission applications
- For passive mode-locking of solid state, ring or fiber ring lasers



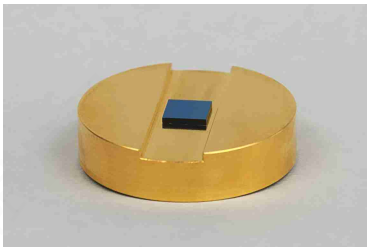
SA 1020	Laser wavelength	λ = 980 nm – 1040 nm
	Absorptance	A_0 = 40 %
	Relaxation time	τ ~ 500 fs
	Saturation fluence	Φ_{sat} = 300 µJ/cm^2
SA 1064	Laser wavelength	λ = 1030 nm – 1090 nm
	Absorptance	A_0 = 14 – 40 %
	Relaxation time	τ ~ 500 fs – 37 ps
	Saturation fluence	Φ_{sat} = 300 µJ/cm^2
SA 1550	Laser wavelength	λ = 1400 nm – 1600 nm
	Absorptance	A_0 = 6 – 58 %
	Relaxation time	τ ~ 2 – 20 ps
	Saturation fluence	Φ_{sat} = 300 µJ/cm^2
SA 2000	Laser wavelength	λ = 1900 nm – 2100 nm
	Absorptance	A_0 = 1 - 43 %
	Relaxation time	τ ~ 10 ps
	Saturation fluence	Φ_{sat} = 300 µJ/cm^2
SA 2800	Laser wavelength	λ = 2500 nm – 3000 nm
	Absorptance	A_0 = 10 %
	Relaxation time	τ ~ 10 ps
	Saturation fluence	Φ_{sat} = 300 µJ/cm^2

Other wavelengths and parameters on request.

Mounting Options



12.7 mm ∅ - Cu-Mount with ∅ 4 mm hole



25.0 mm ∅ - Cu-Mount with ∅ 4 mm hole

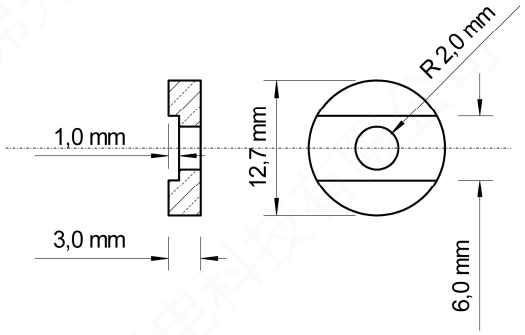
Backside of 25.0 mm ∅ - Cu-Mount with ∅ 4 mm hole

Fiber coupled SA

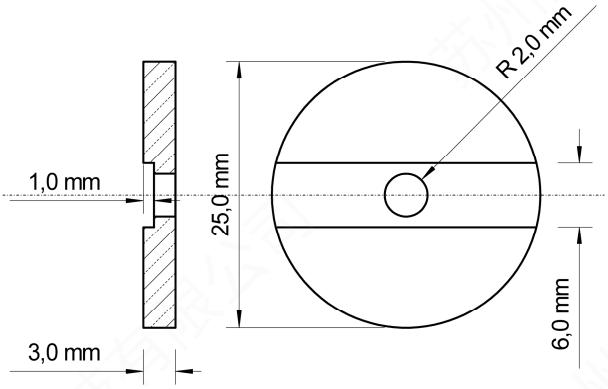
Chip area:	5 mm x 5 mm
Chip thickness:	625 µm semi – insulating GaAs, other thickness on request
Front side protection:	AR coating
Back side:	Polished and AR coated

Mounting:	▪ Unmounted
	▪ Glued on:
	  ▪ 12.7 mm ∅ Cu-mount with ∅ 4 mm hole
	  ▪ 25.0 mm ∅ Cu-mount with ∅ 4 mm hole
	▪ Fiber coupled (SMF, PM)
	▪ Mounting on custom mounts on request

Cu-Mount ∅ 12.7 mm with ∅ 4 mm hole:

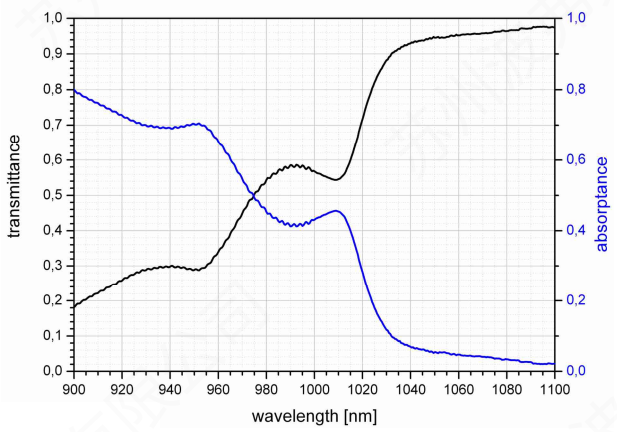


Cu-Mount ∅ 25.0 mm with ∅ 4 mm hole:

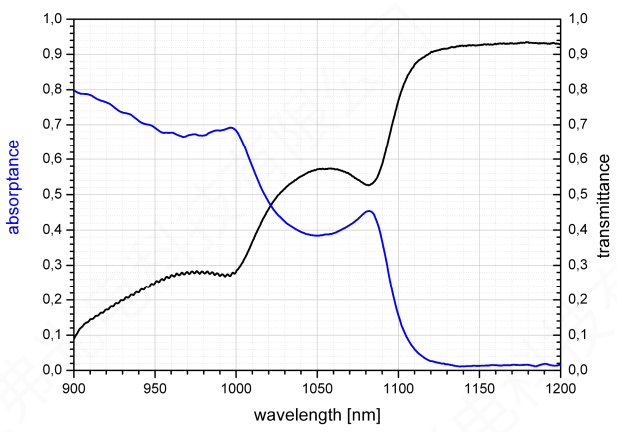


Spectral transmission / absorption:

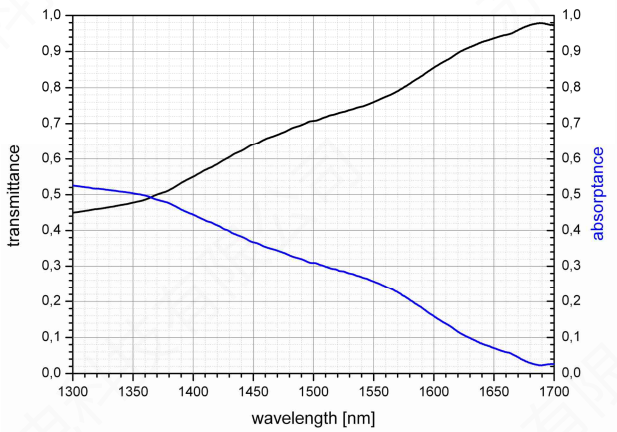
SA 1020-40-X



SA 1064-40-X



SA 1550-25-X



SA 2000-25-X