

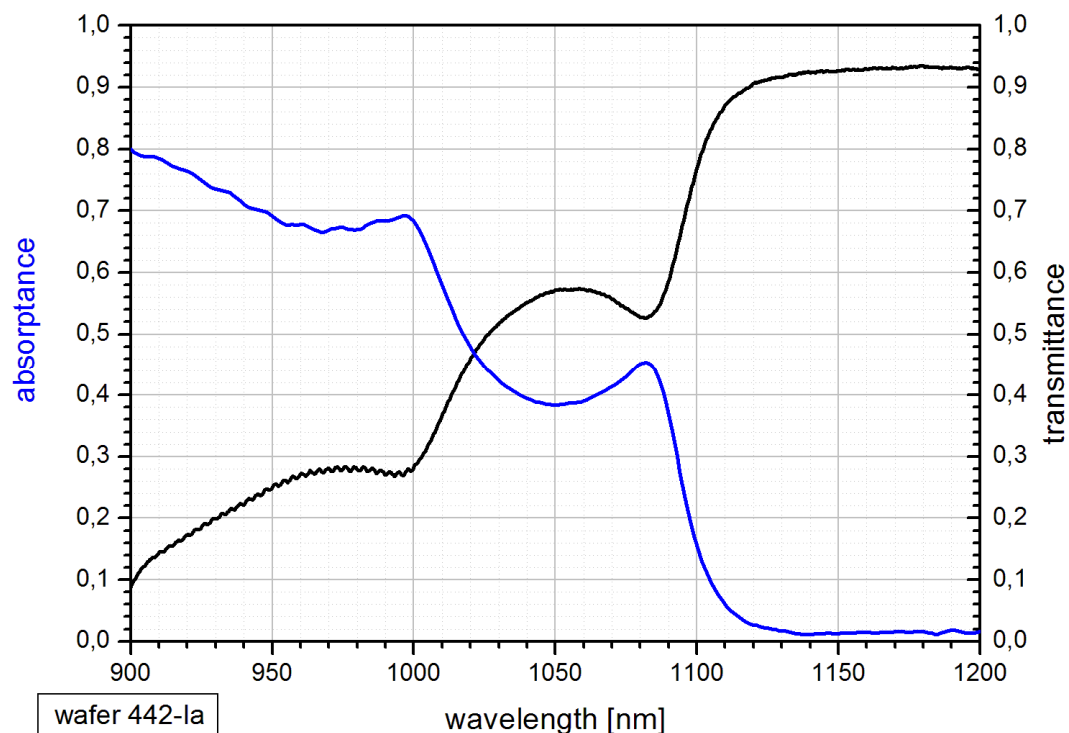
## SA data sheet SA-1064-40-500fs-x, $\lambda = 1064$ nm

Laser wavelength	$\lambda = 1030$ nm ... 1090 nm
Absorptance	$A_0 = 40$ %
Modulation depth	$\Delta T = 25$ %
Non-saturable loss	$A_{ns} = 15$ %
Saturation fluence	$\Phi_{sat} = 300$ $\mu\text{J}/\text{cm}^2$
Damage threshold	$\Phi = 1$ $\text{mJ}/\text{cm}^2$
Relaxation time constant	$\tau \sim 500$ fs
Chip area	5.0 mm x 5.0 mm; other dimensions on request
Chip thickness	625 $\mu\text{m}$ ; semi-insulating GaAs
Front side protection	AR coating for 1064 nm
Back side coating	the SA back side is polished and antireflection coated for 1064 nm

Mounting of SA-1064-40-500fs-x denotes the type of mounting as follows:

x = 0	unmounted
x = 12.7 g	glued on a gilded Cu-cylinder with 12.7 mm $\varnothing$ and 4 mm $\varnothing$ center hole
x = 25.4 g	glued on a gilded Cu-cylinder with 25.4 mm $\varnothing$ and 4 mm $\varnothing$ center hole
x = FC	a back-thinned SA chip with 90 $\mu\text{m}$ thickness is mounted inside a 1 m monomode fiber cable

### Spectral low intensity transmittance and absorptance

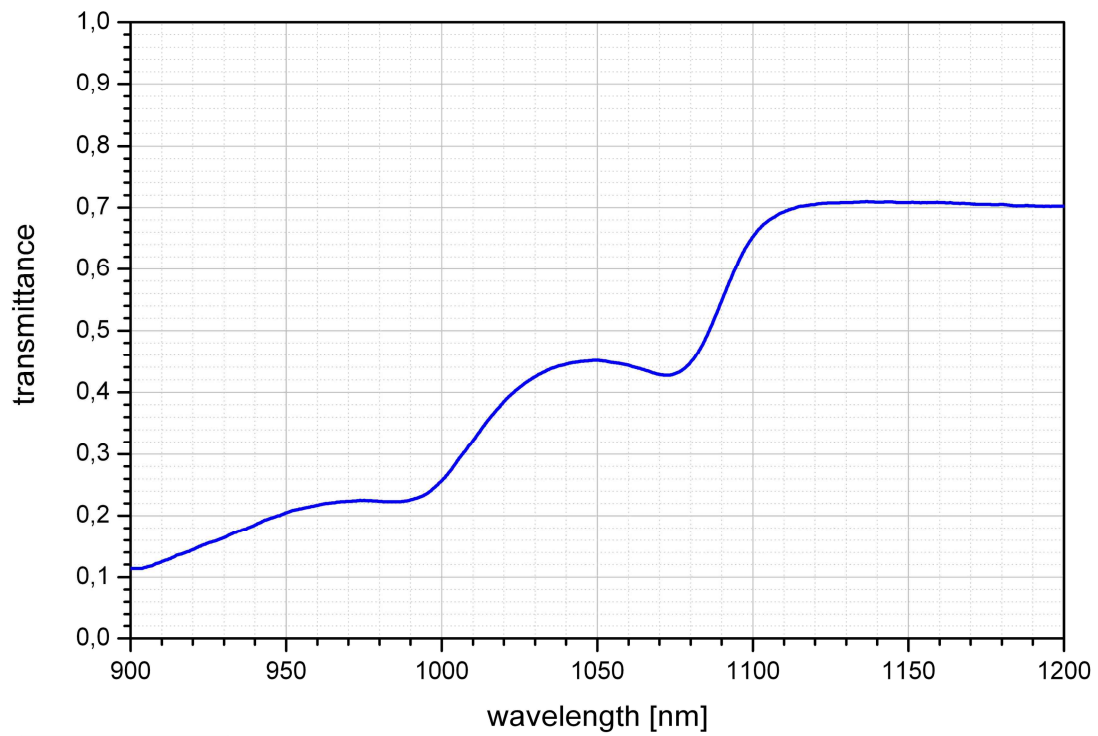




Fiber coupled saturable absorber SA-1064-40-FC

Monomode fiber HI 1060 with FC/PC connector on both sides

Low-intensity spectral transmittance



JAM 442 Ib.F1

09.08.2007