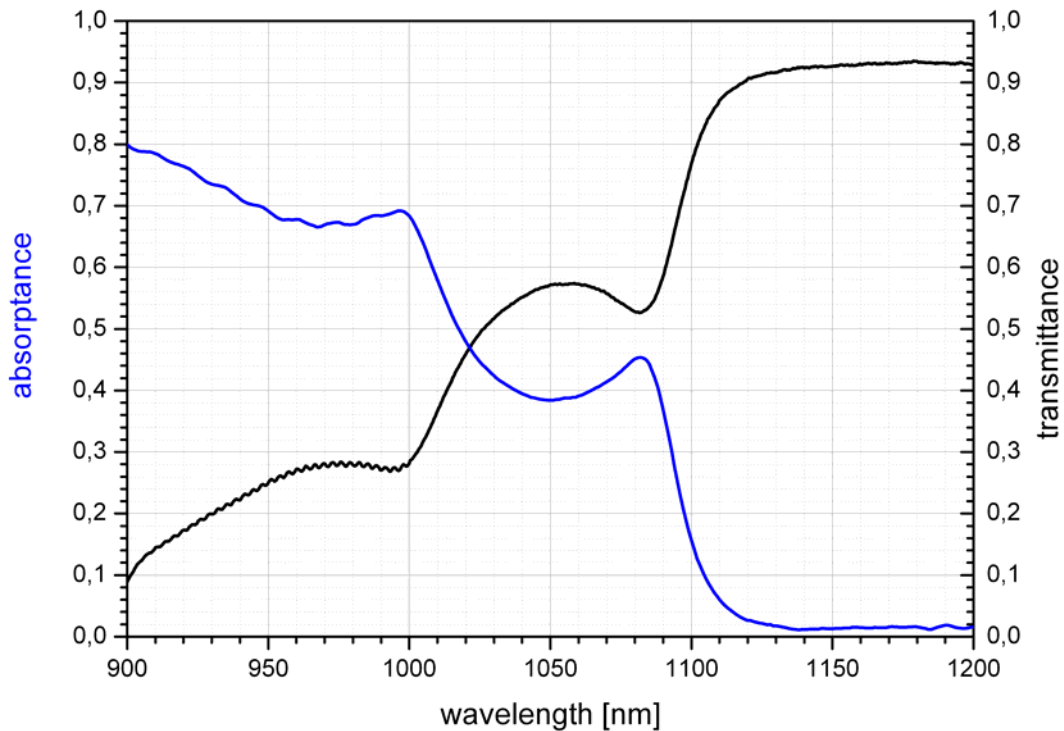


### SA data sheet SA-1064-40-x, $\lambda = 1064 \text{ nm}$

Laser wavelength	$\lambda = 1030 \text{ nm} \dots 1090 \text{ nm}$
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	$P/A = 100 \text{ MW}/\text{cm}^2$
Relaxation time constant	$\tau \sim 500 \text{ fs}$
Chip area	5mm x 5mm; 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-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

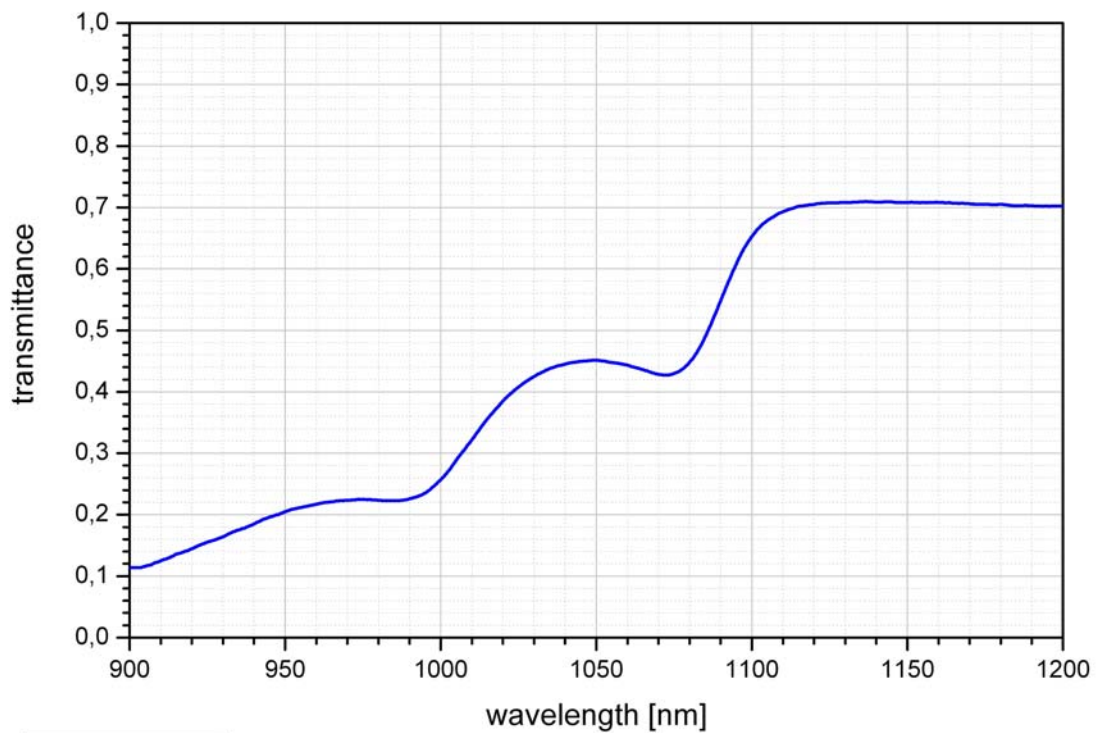


**JAM 442 Ia**

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