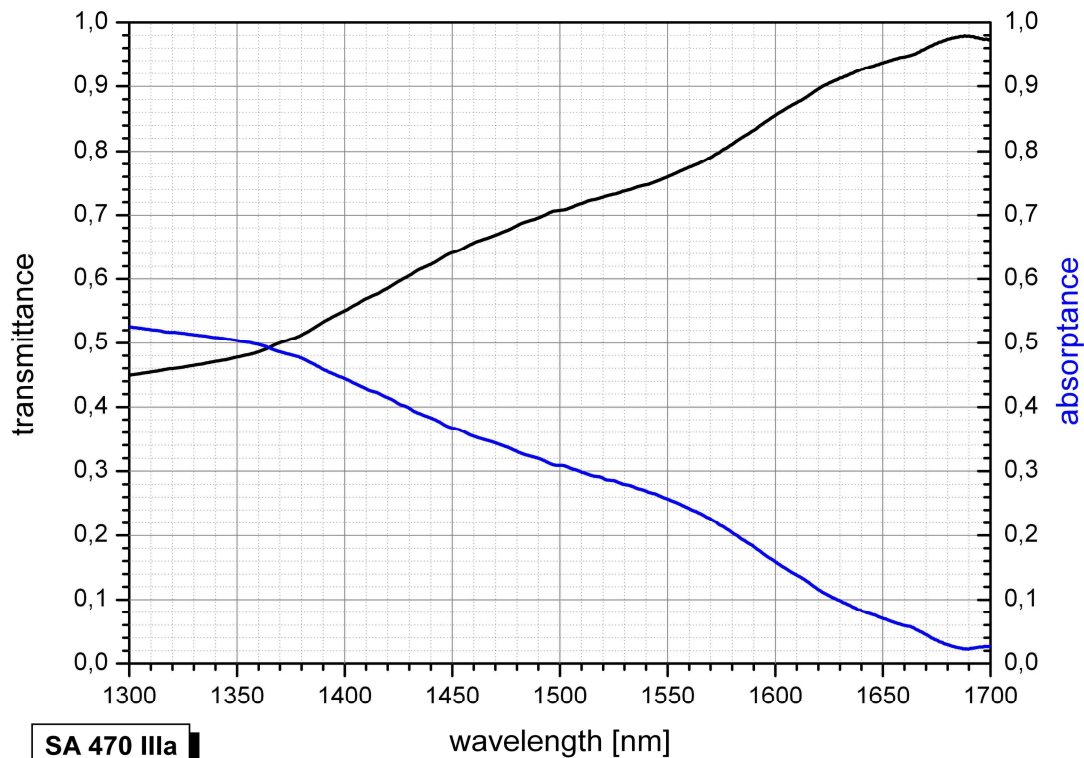


SA data sheet SA-1550-25-2ps-x, $\lambda = 1550$ nm

Laser wavelength	$\lambda = 1500$ nm ... 1600 nm
Absorptance	$A_0 = 25$ %
Modulation depth	$\Delta T = 15$ %
Non-saturable loss	$A_{ns} = 10$ %
Saturation fluence	$\Phi_{sat} = 300$ $\mu\text{J}/\text{cm}^2$
Damage threshold	$\Phi = 2$ mJ/cm^2
Relaxation time constant	$\tau \sim 2$ ps
Chip area	5.0 mm x 5.0 mm; other dimensions on request
Chip thickness	100 μm ; semi-insulating GaAs
Front side protection	AR coating for 1550 nm
Back side coating	the SA back side is polished and antireflection coated for 1550 nm
Mounting of SA-1550-25-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 100 μm thickness is mounted inside a 1 m monomode fiber cable. The fiber coupled SA has an additional coupling loss of about 15 %.

Spectral low intensity transmittance and absorptance



SA 470 IIIa