

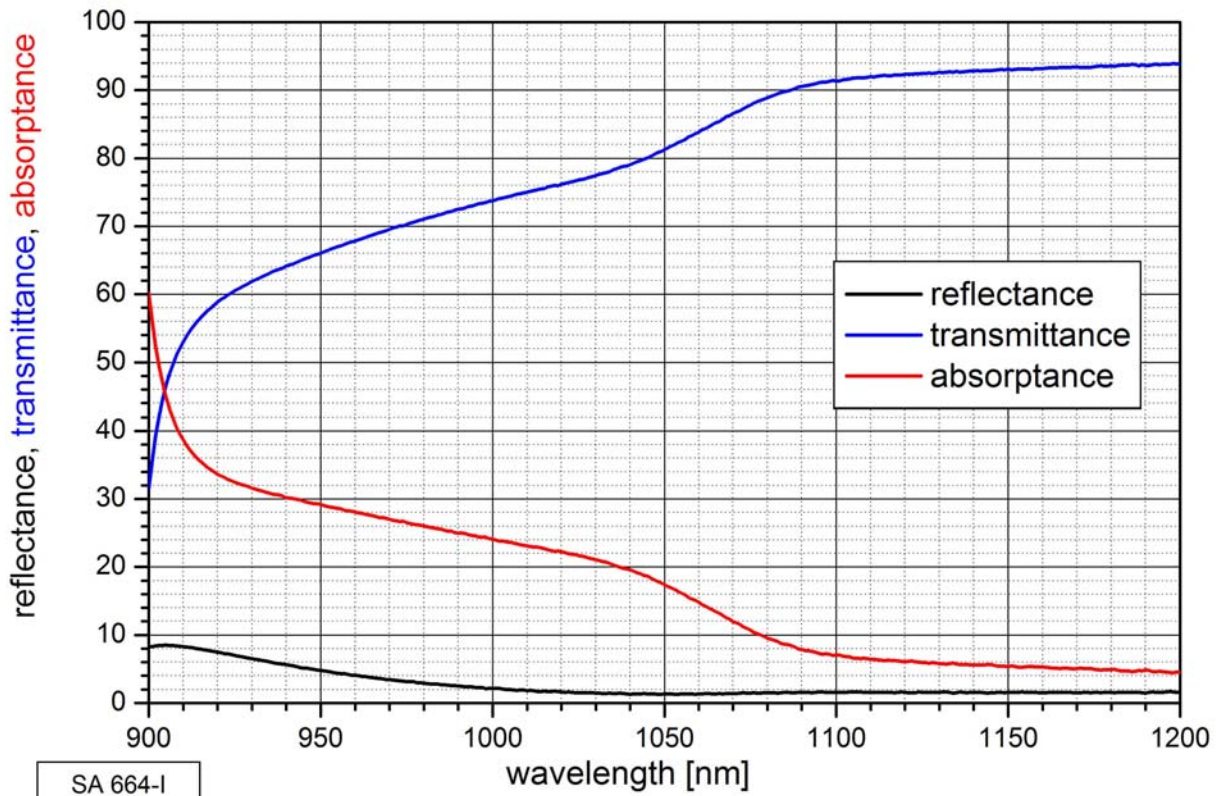
SA data sheet SA-1064-14-x-28ps, $\lambda = 1064 \text{ nm}$

Laser wavelength	$\lambda = 1000 \text{ nm} \dots 1100 \text{ nm}$
Absorptance	$A_0 = 14 \%$
Transmittance	$T = 85 \%$
Modulation depth	$\Delta T = 3.4 \%$
Saturation fluence	$\Phi_{\text{sat}} = 300 \mu\text{J}/\text{cm}^2$
Damage threshold	$P/A = 200 \text{ MW}/\text{cm}^2$
Relaxation time constant	$\tau \sim 28 \text{ ps}$
Chip area	5mm x 5mm; other dimensions on request
Chip thickness	625 μm ; 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-1064-14-x-28ps denotes the type of mounting as follows:

$x = 0$	unmounted
$x = 12.7 \text{ g}$	glued on a copper heat sink with 12.7 mm \varnothing and 4 mm \varnothing center hole
$x = 25.4 \text{ g}$	glued on a copper heat sink with 25.4 mm \varnothing and 4 mm \varnothing center hole
$x = \text{FC}$	a back-thinned SA chip with 100 μm thickness is mounted inside a 1 m monomode fiber cable

low intensity reflectance, **absorptance** and **transmittance**



Relaxation time τ measurement