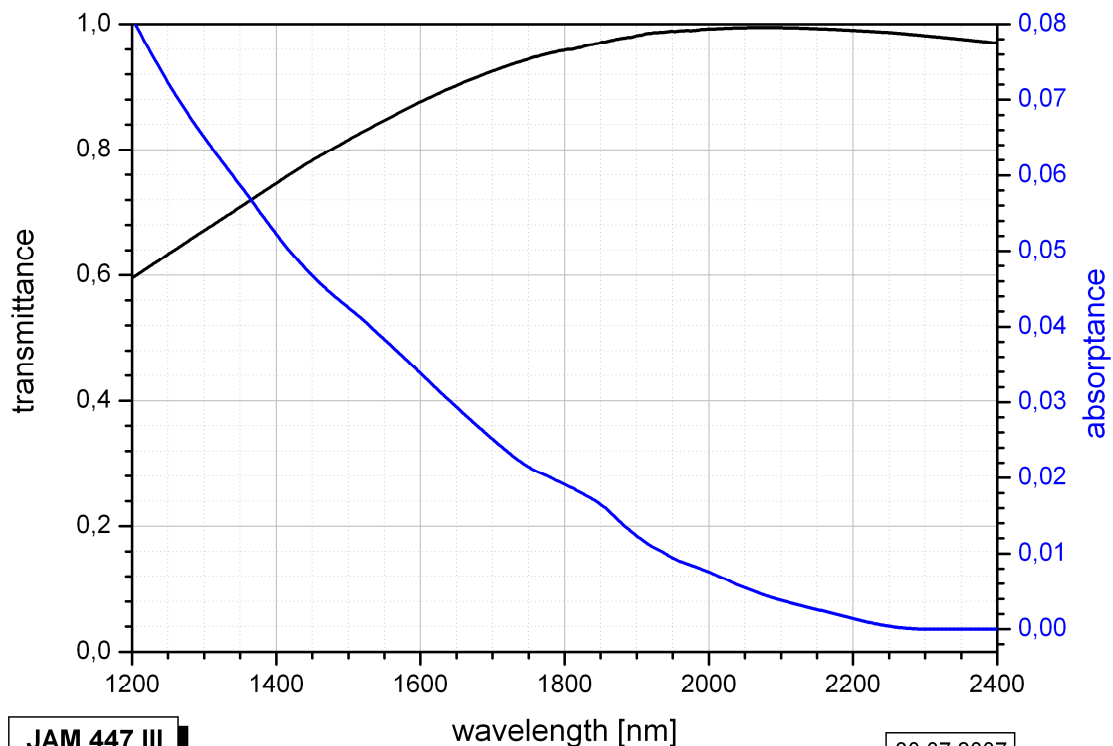


SA data sheet SA-2000-1-x, $\lambda = 2000 \text{ nm}$

Laser wavelength	$\lambda = 1900 \text{ nm} \dots 2100 \text{ nm}$
Absorptance	$A_0 = 1 \%$
Modulation depth	$\Delta T = 0.6 \%$
Non-saturable loss	$A_{ns} = 0.4 \%$
Saturation fluence	$\Phi_{sat} = 300 \mu\text{J}/\text{cm}^2$
Damage threshold	$P/A = 3 \text{ mJ}/\text{cm}^2$
Relaxation time constant	$\tau \sim 10 \text{ ps}$
Chip area	5.0 mm x 5.0 mm; other dimensions on request
Chip thickness	625 μm ; semi-insulating GaAs
Front side protection	AR coating for 2 μm
Back side coating	the SA back side is polished and antireflection coated for 2 μm
Mounting of SA-2000-1-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

Spectral low intensity transmittance and absorptance



JAM 447 III

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