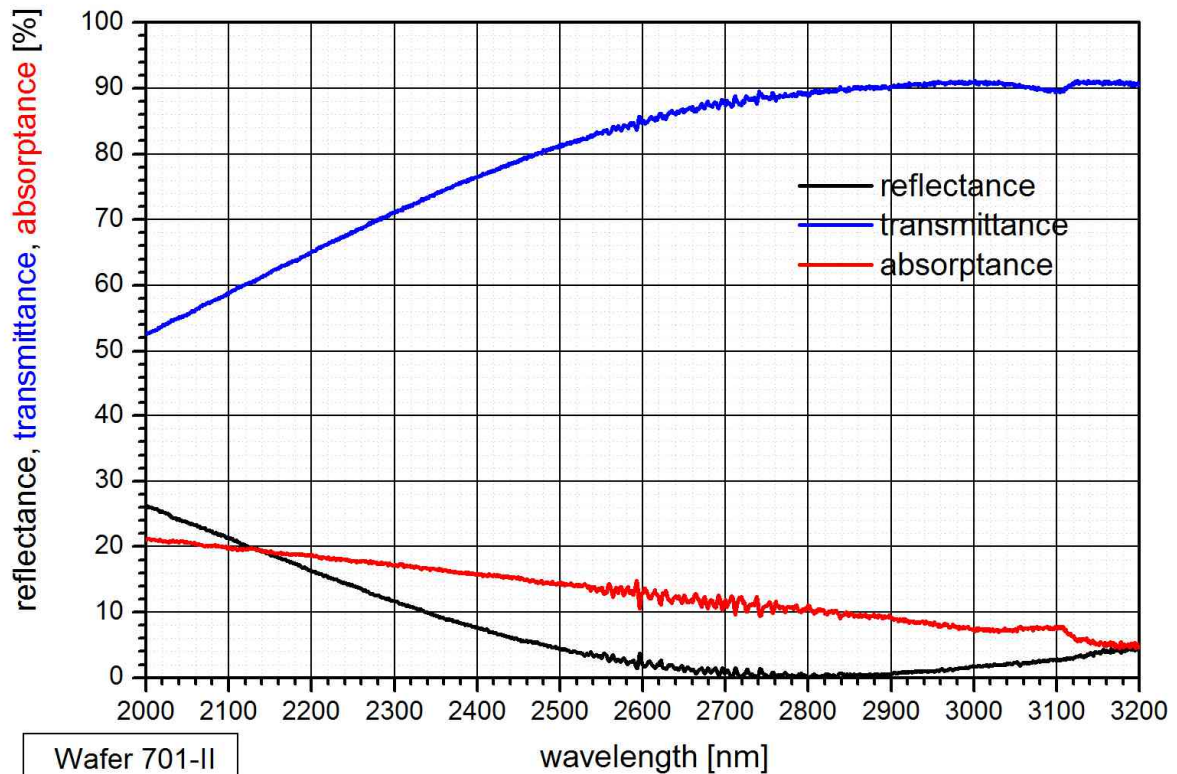


SA data sheet SA-2800-10-x, $\lambda = 2800$ nm

Saturable absorber in transmission

| | |
|--------------------------|--|
| Laser wavelength | $\lambda = 2500$ nm ... 3000 nm |
| Absorptance | $A_0 = 10$ % @ 2.8 μ m |
| Transmittance | $T_0 = 90$ % @ 2.8 μ m |
| Reflectance | $R_0 = 0$ % @ 2.8 μ m |
| Modulation depth | $\Delta T = 6$ % @ 2.8 μ m |
| Non-saturable loss | $A_{ns} = 4$ % @ 2.8 μ m |
| Saturation fluence | $\Phi_{sat} = 300$ μ J/cm ² |
| Damage threshold | $\Phi = 2$ mJ/cm ² |
| Relaxation time constant | $\tau \sim 10$ ps |
| Chip area | 5 mm x 5 mm; other dimensions on request |
| Chip thickness | 625 μ m semi-insulating GaAs |
| Front side protection | AR coating for 2.8 μ m |
| Back side coating | the SA back side is polished and antireflection coated for 2.8 μ m |
| Mounting of SA-2000-43-x | denotes the type of mounting as follows: |
| x = 0 | unmounted |
| x = 12.7 g | glued on a Cu-cylinder with 12.7 mm \varnothing and 4 mm \varnothing center hole |
| x = 25.4 g | glued on a Cu-cylinder with 25.4 mm \varnothing and 4 mm \varnothing center hole |

Spectral low intensity transmittance, reflectance and absorptance



Pump-probe measurement using a 1060 nm pulse laser

