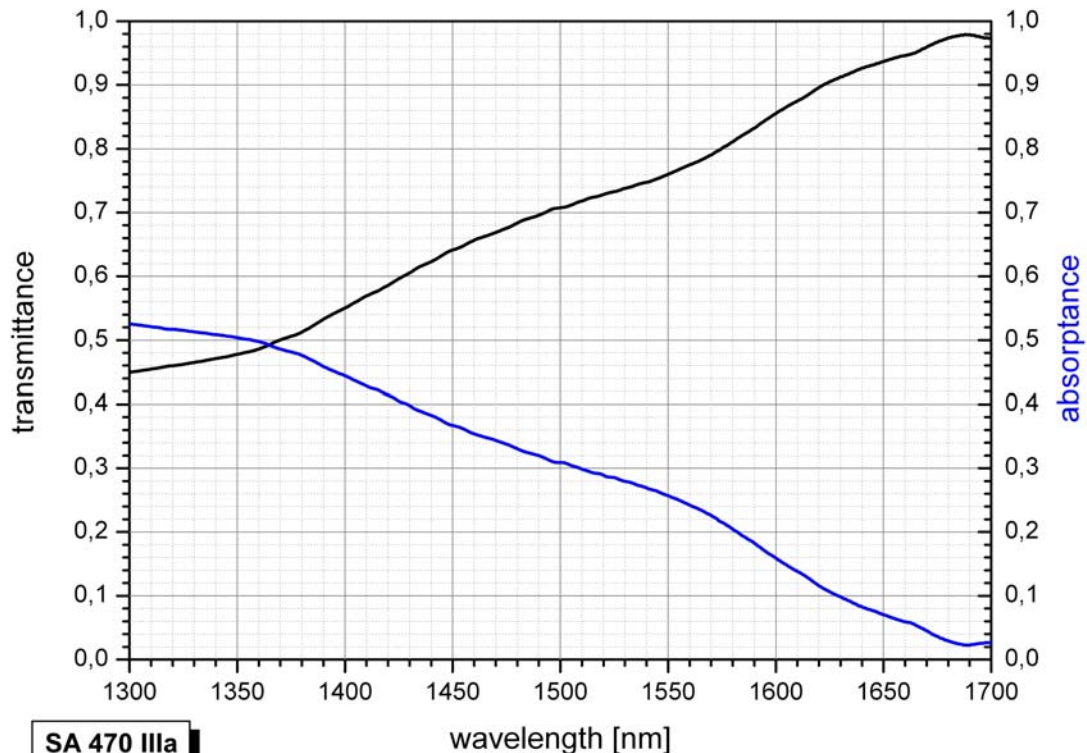


SA data sheet SA-1550-25-x, $\lambda = 1550$ nm

| | |
|--------------------------|--|
| 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 | $P/A = 100$ MW/ cm^2 |
| Relaxation time constant | $\tau \sim 2$ ps |
| Chip area | 5mm x 5mm; 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 |

Spectral low intensity transmittance and absorptance



SA 470 IIIa