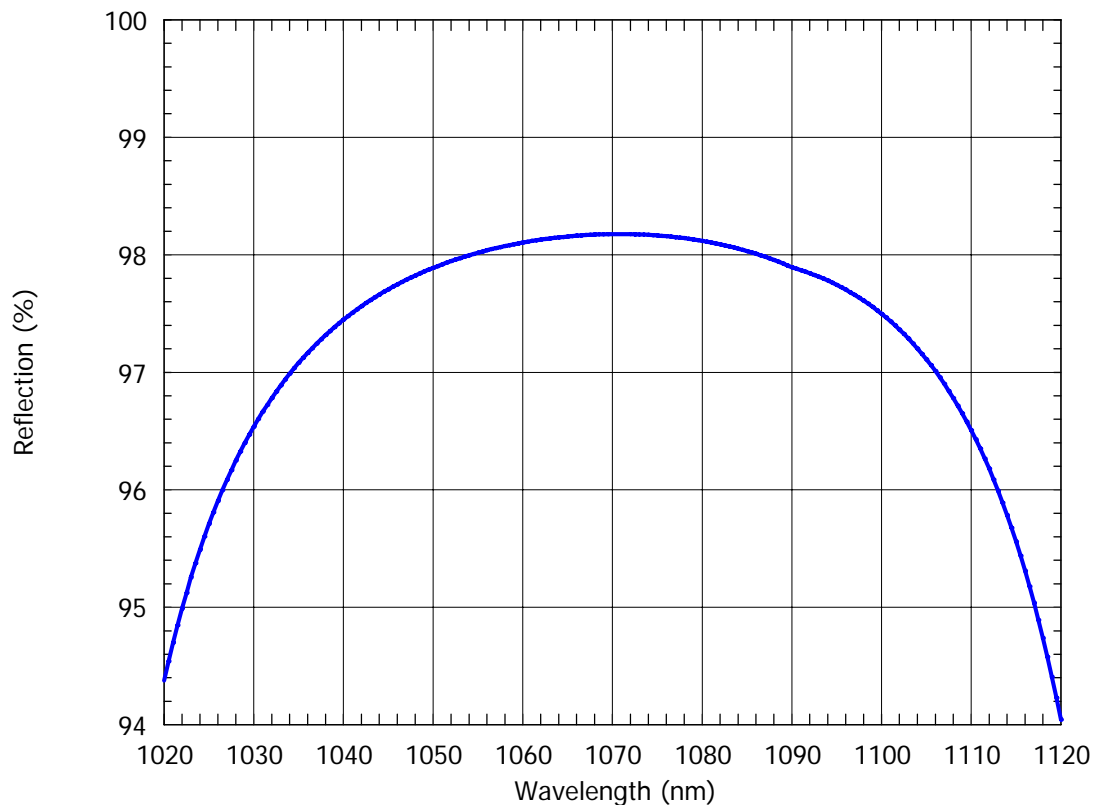


SOC data sheet SOC-1040-1.0-x, $\lambda = 1040 \text{ nm}$

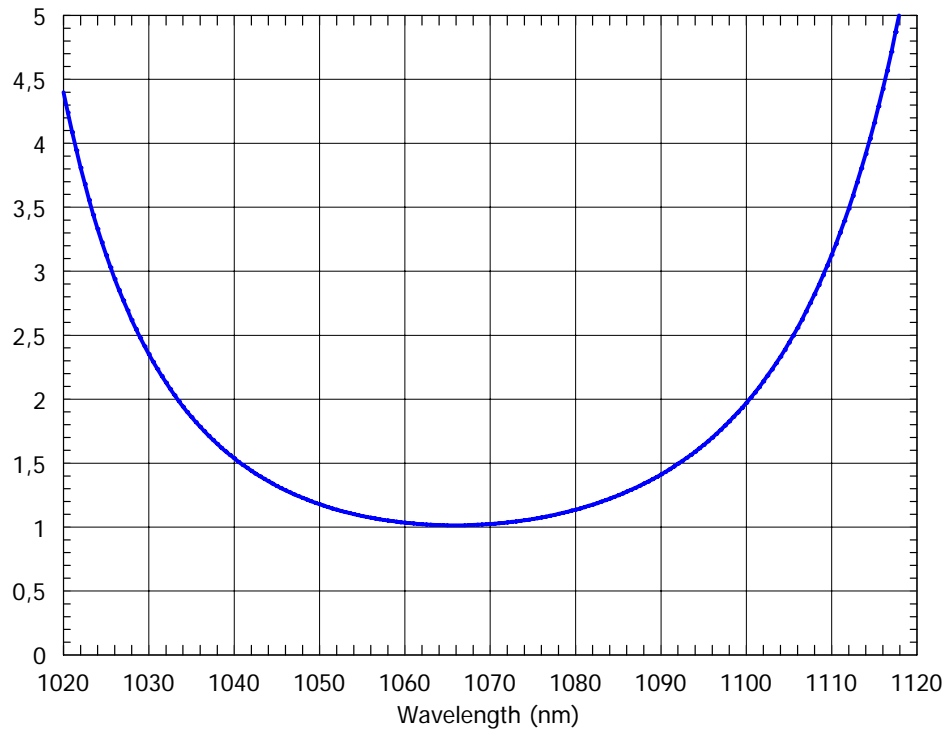
| | |
|----------------------------|---|
| Laser wavelength | $\lambda = 1040 \text{ nm}$ |
| Transmittance | $T = 1.5 \%$ |
| Absorptance | $A_0 = 1.0 \%$ |
| Modulation depth | $\Delta R = 0.6 \%$ |
| Non-saturable loss | $A_{ns} = 0.4 \%$ |
| Saturation fluence | $\Phi_{sat} = 90 \mu\text{J}/\text{cm}^2$ |
| Relaxation time constant | $\tau \leq 10 \text{ ps}$ |
| Chip area | 5mm x 5mm; other dimensions on request |
| Chip thickness | 625 μm ; semi-insulating GaAs |
| Front side protection | with a dielectric layer |
| Back side AR coating | the SOC back side is polished and antireflection coated for 1064 nm |
| Mounting of SOC-1040-1.0-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 | mounted on a 1 m monomode fiber cable with FC connector |

Spectral low intensity reflectance



402-I

Spectral low intensity transmittance



Spectral low intensity absorbance

