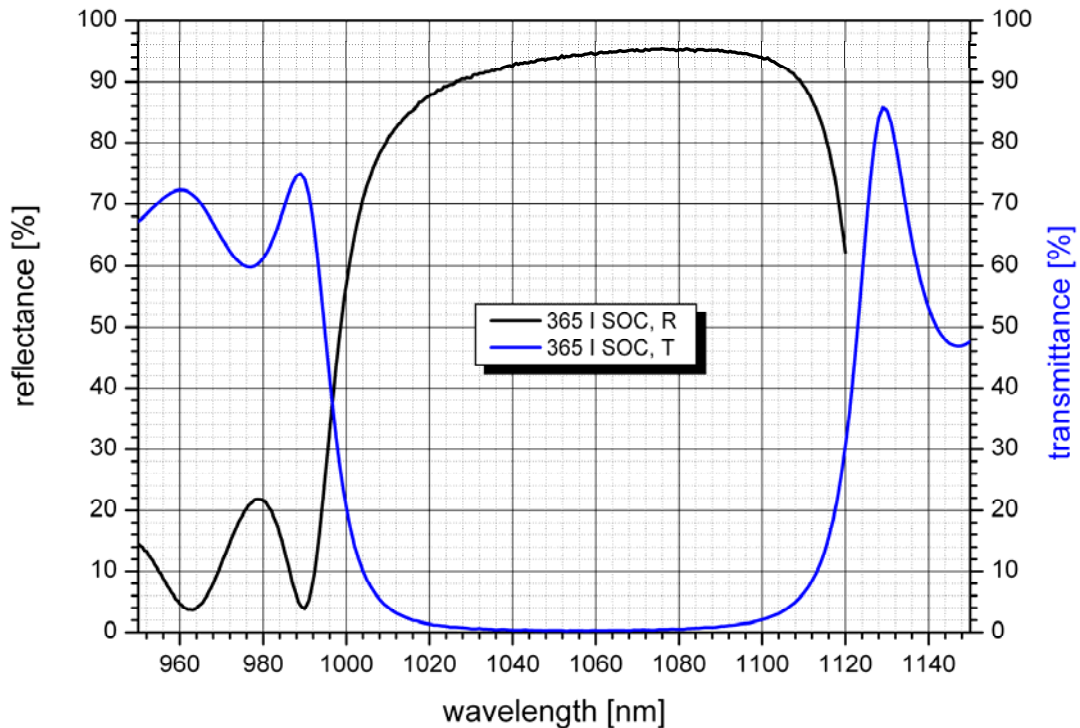


SOC data sheet SOC-1040-6-x, $\lambda = 1040 \text{ nm}$

Laser wavelength	$\lambda = 1040 \text{ nm}$
Transmittance	0.5%
Absorptance	$A_0 = 6 \%$
Modulation depth	$\Delta R = 3.5 \%$
Non-saturable loss	$A_{ns} = 2.5 \%$
Saturation fluence	$\Phi_{sat} = 70 \mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 1 \text{ ps}$
Chip area	5 mm x 5 mm; 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 1040 nm
Mounting of SOC-1040-6-x	denotes the type of mounting as follows:
$x = 0$	unmounted
$x = 12.7 \text{ g}$	glued on a gilded Cu-cylinder with 12.7 mm \varnothing and 4 mm \varnothing center hole
$x = 25.4 \text{ g}$	glued on a gilded Cu-cylinder with 25.4 mm \varnothing and 4 mm \varnothing center hole
$x = \text{FC}$	mounted on a 2 m monomode fiber cable with FC connector

Spectral reflectance and transmittance



Spectral reflectance and transmittance

