

## SOC data sheet SOC-1064-15-23-17ps-x, $\lambda$ = 1064 nm

 $\begin{array}{lll} \text{Laser wavelength} & \lambda = 1064 \text{ nm} \\ \text{Absorptance} & A_0 = 15 \ \% \\ \text{Transmittance} & T = 23 \ \% \\ \text{Reflectance} & R = 62 \ \% \\ \text{Modulation depth} & \Delta R = 8 \ \% \\ \text{Non-saturable loss} & A_{\text{ns}} = 7 \ \% \\ \end{array}$ 

Saturation fluence  $\Phi_{\text{sat}} = 50 \,\mu\text{J/cm}^2$ 

Relaxation time constant  $\tau \sim 17 \text{ ps}$ 

Chip area 5.0 mm x 5.0 mm; other dimensions on request

Chip thickness 625 µm; semi-insulating GaAs

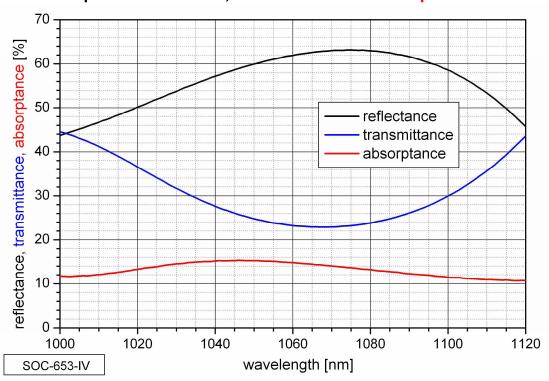
Front side protection with a dielectric layer

Back side AR coating the SOC back side is polished and antireflection coated for 1064 nm

Mounting option **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 Ø and 4 mm Ø center hole
x = 25.0 g glued on a gilded Cu-cylinder with 25. mm Ø and 4 mm Ø center hole
x = 25.4 g glued on a gilded Cu-cylinder with 25.4 mm Ø and 4 mm Ø center hole
x = FC mounted on a 1 m single mode fiber cable with FC connector

## Spectral reflectance, transmittance and absorptance





## pump-probe measurement of relaxation time

