

### SOC data sheet SOC-1064-1-1-5ps-x, $\lambda = 1064 \text{ nm}$

Laser wavelength	$\lambda = 1064 \text{ nm}$
Absorptance	$A_0 = 1 \%$
Transmittance	$T = 1 \%$
Reflectance	$R = 98 \%$
Modulation depth	$\Delta R = 0.6 \%$
Saturation fluence	$\Phi_{\text{sat}} = 60 \mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 5 \text{ ps}$
Chip area	5.0 mm x 5.0 mm; other dimensions on request
Chip thickness	625 $\mu\text{m}$ ; semi-insulating GaAs
Front side protection	dielectric coating
Back side AR coating	the SOC back side is polished and antireflection coated for 1064 nm
Mounting of SOC-1064-1-1-5ps-x	denotes the type of mounting as follows:
$x = 0$	unmounted chip
$x = 12.7 \text{ g}$	glued on a copper heat sink with 12.7 mm $\varnothing$ and 4 mm $\varnothing$ center hole
$x = 25.4 \text{ g}$	glued on a copper heat sink with 25.4 mm $\varnothing$ and 4 mm $\varnothing$ center hole

### Spectral low intensity reflectance, transmittance and absorptance

