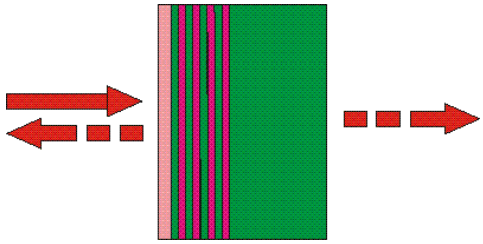
SOC – Saturable Output Coupler

Product Overview

BATOP GmbH
Stockholmer Str. 14
07747 Jena
Germany
Phone: +49 3641 634009 - 0
URL: http://www.batop.de
e-mail: info@batop.de

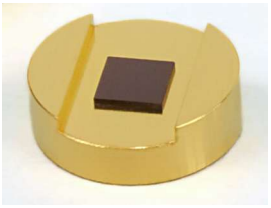
- For passive mode-locking of solid state lasers and use as laser output element



SOC 1040	Laser wavelength	λ = 1020 - 1080 nm
	Absorptance	A_0 = 0.5 - 24 %
	Modulation depth	ΔR = 0.3 – 9.5 %
	Transmittance	T = 0.4 – 19 %
	Relaxation time	τ = 1 – 15 ps
	Saturation fluence	Φ_{sat} = 40 - 90 µJ/cm^2
SOC 1064	Laser wavelength	λ = 1040 - 1100 nm
	Absorptance	A_0 = 1 - 22 %
	Modulation depth	ΔR = 0.6 – 9.5 %
	Transmittance	T = 0.3 – 23 %
	Relaxation time	τ = 1 - 20 ps
	Saturation fluence	Φ_{sat} = 40 - 500 µJ/cm^2
SOC 2000	Laser wavelength	λ = 1950 - 2050 nm
	Absorptance	A_0 = 26 - 40 %
	Modulation depth	ΔR = 15 - 23 %
	Transmittance	T =19 - 28 %
	Relaxation time	τ ~ 10 ps
	Saturation fluence	Φ_{sat} = 70 - 80 µJ/cm^2

For other wavelengths and parameters please ask!

Mounting Options



12.7 mm ∅ - Cu-Mount with ∅ 4 mm hole

25.0 mm / 25.4 mm ∅ - Cu-Mount with ∅ 4 mm hole

Backside of 25.0 mm / 25.4 mm ∅ - Cu-Mount with ∅ 4 mm hole

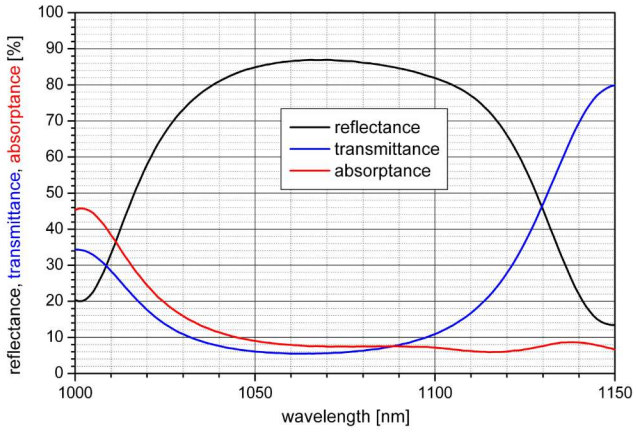
Fiber coupled SOC

Chip area:	5 mm x 5 mm
Chip thickness:	625 µm, semi – insulating GaAs
Front side coating:	Dielectric protection layer
Back side:	Polished and AR coated

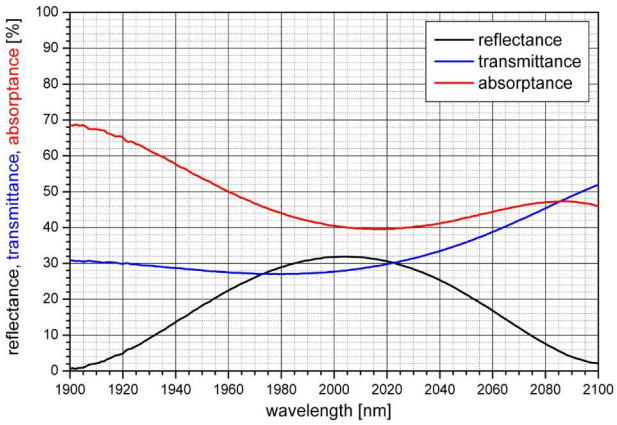
Mounting:	▪ Unmounted
	▪ Glued on:
	  ▪ 12.7 mm ∅ Cu-mount with ∅ 4 mm hole
	  ▪ 25.0 mm ∅ Cu-mount with ∅ 4 mm hole
	  ▪ 25.4 mm ∅ Cu-mount with ∅ 4 mm hole
	▪ Fiber coupled (SMF, PMF)
	▪ Mounting on custom mounts on request

Spectral reflection / transmission:

SOC-1064-8-6-1ps-X



SOC-2000-40-28-10ps-X



Notes: