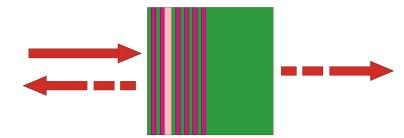


RSA – Resonant Saturable Absorber

Product Overview

Resonant saturable absorber in transmission mode for passive mode-locking of fiber ring lasers



Device Characteristic

- low reflectance at resonance for low intensity
- low transmittance for all wavelengths outside the resonance
- increasing transmittance with increasing pulse fluence
- low saturation fluence

Advantages

- low power threshold for start of mode-locking
- laser wavelength fixed at the resonance

RSA 1060

Resonance wavelength Low intensity absorptance Low intensity transmittance T = 45 %Low intensity reflectance Saturation fluence Relaxation time

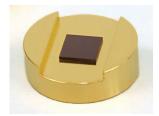
 $\lambda = 1057 \text{ nm}$ A = 53 %R < 2 % Φ_{sat} = 25 µJ/cm² $\tau = 6 \text{ ps}$





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

Mounting Options



12.7 mm \varnothing - Cu-Mount with \emptyset 4 mm hole



25.0 mm \varnothing - Cu-Mount with \varnothing 4 mm hole



Backside of 25.0 mm Ø - Cu-Mount with \varnothing 4 mm hole



Fiber coupled RSA

 Chip area:
 5 mm x 5 mm

 Chip thickness:
 625 μm semi – insulating GaAs

 Front side protection:
 AR coating

 Back side:
 Polished and AR coated

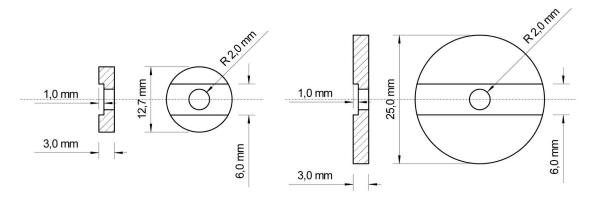
 Mounting:
 • Unmounted

 • Glued on:
 • 12.7 mm Ø Cu-mount with Ø 4 mm hole

- 25.0 mm Ø Cu-mount with Ø 4 mm hole
- Fiber coupled (SMF, PMF)
- Mounting on custom mounts on request

Cu-Mount \oslash 12.7 mm with \oslash 4 mm hole:

Cu-Mount \varnothing 25.0 mm with \varnothing 4 mm hole:



Spectral reflectance / transmittance / absorptance RSA-1057-53-45-6ps-x:

