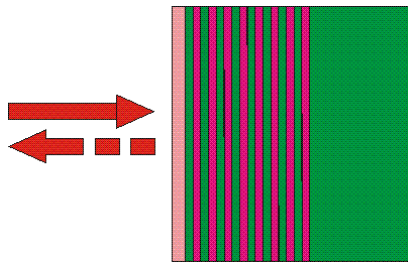


RSAM™ – Resonant Saturable Absorber Mirror

Product Overview

- For optical noise suppression or optical pulse cleaning after a pulse picker or amplifier
- Low intensity reflectance at resonance wavelength $\leq 1\%$



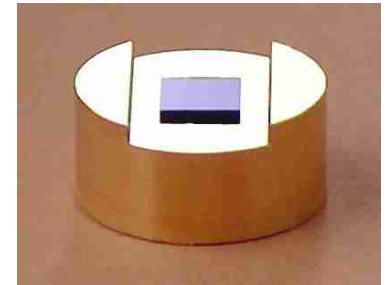
RSAM 980	Laser wavelength	$\lambda = 968 - 984 \text{ nm}$
	Absorptance	$A_0 \geq 99\%$
	Modulation depth	$\Delta R \sim 60\%$
	Relaxation time	$\tau \sim 1 \text{ ps}$
	Saturation fluence	$\Phi_{\text{sat}} = 15 \mu\text{J}/\text{cm}^2$

RSAM 1030	Laser wavelength	$\lambda = 1030 \text{ nm}$
	Absorptance	$A_0 \geq 99\%$
	Modulation depth	$\Delta R \sim 55\%$
	Relaxation time	$\tau \sim 1 \text{ ps}$
	Saturation fluence	$\Phi_{\text{sat}} = 50 \mu\text{J}/\text{cm}^2$

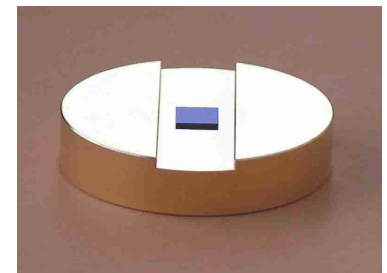
RSAM 1064	Laser wavelength	$\lambda = 1050 - 1064 \text{ nm}$
	Absorptance	$A_0 \geq 98\%$
	Modulation depth	$\Delta R \sim 60\%$
	Relaxation time	$\tau \sim 9 - 32 \text{ ps}$
	Saturation fluence	$\Phi_{\text{sat}} = 15 - 30 \mu\text{J}/\text{cm}^2$

RSAM 1550	Laser wavelength	$\lambda = 1530 - 1560 \text{ nm}$
	Absorptance	$A_0 \geq 98\%$
	Modulation depth	$\Delta R \sim 60\%$
	Relaxation time	$\tau \sim 10 \text{ ps}$
	Saturation fluence	$\Phi_{\text{sat}} = 15 \mu\text{J}/\text{cm}^2$

Mounting Options



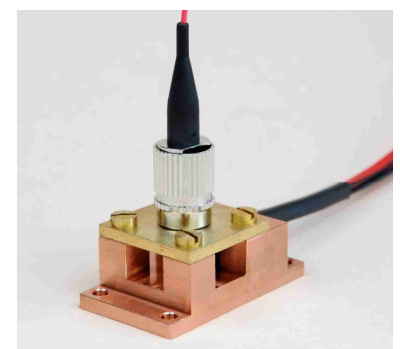
12.7 mm \varnothing - Cu-Mount with \varnothing 4 mm hole



25.0 mm / 25.4 mm \varnothing - Cu-Mount



Fiber coupled RSAM

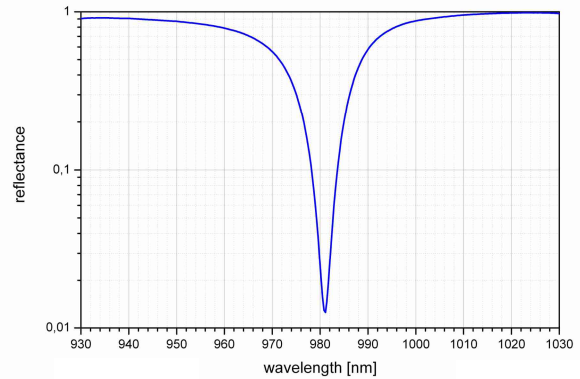
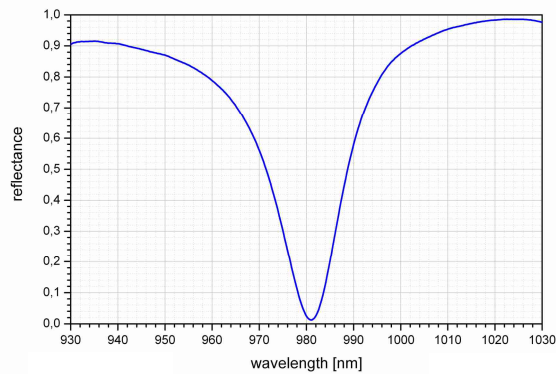


Fiber coupled RSAM™ with TEC cooler

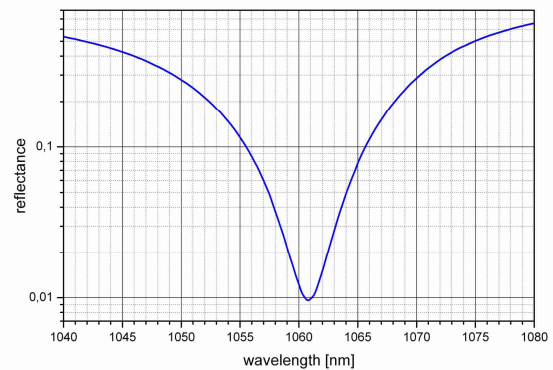
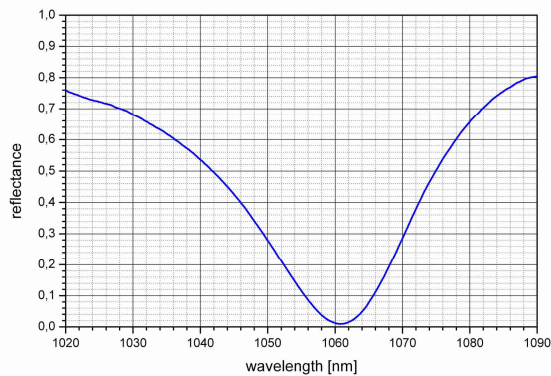
- Chip area: 4 mm x 4 mm
- Chip thickness: 450 μm , semi – insulating GaAs
- Mounting:
- Unmounted
 - Glued or soldered on:
 - 12.7 mm \varnothing (1/2" \varnothing) Cu-mount
 - 25.0 mm \varnothing Cu-mount
 - 25.4 mm \varnothing (1" \varnothing) Cu-mount
 - Soldered on a water-cooled 25.0 mm \varnothing Cu-mount
 - Thin film soldered on a water-cooled Cu-mount
 - Fiber coupled (SMF, PM fiber)
 - Fiber coupled (SMF, PM fiber) with TEC cooler
 - mounting on custom mounts on request

Spectral reflection / transmission:

RSAM 980-X



RSAM 1064-X



RSAM 1550-X

