

## RSAM data sheet RSAM-1030-1ps-x, $\lambda = 1030 \text{ nm}$

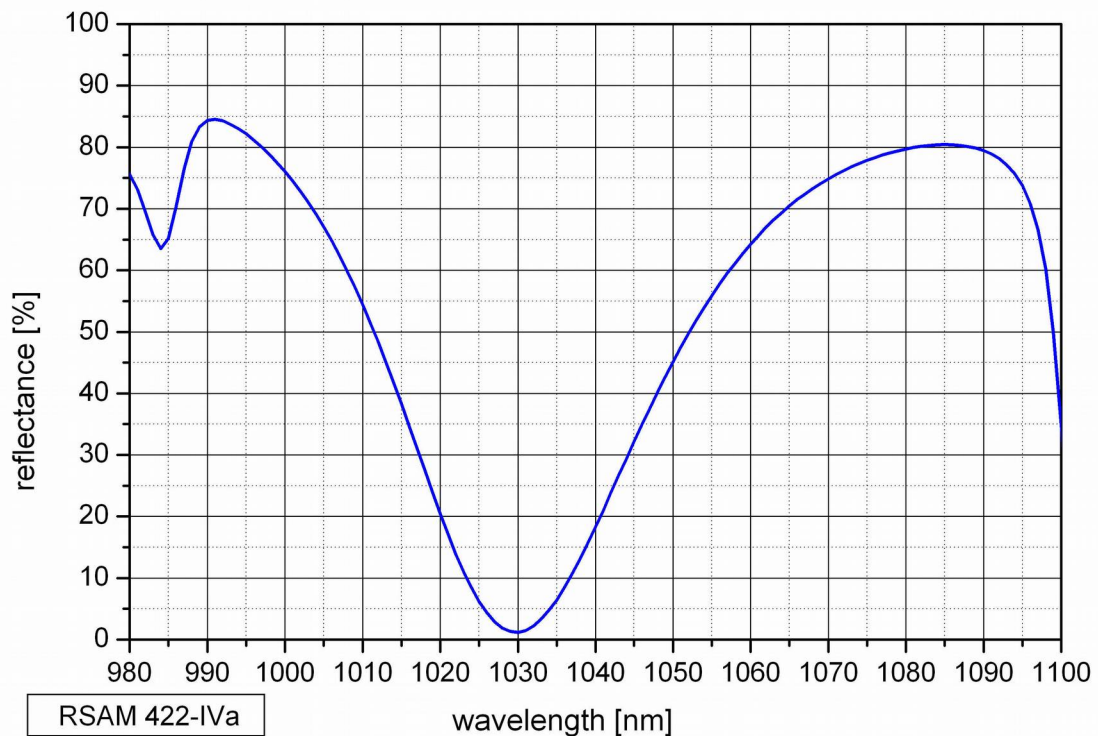
### RSAM - Resonant saturable absorber mirror

Working wavelength	$\lambda = 1030 \text{ nm}$ (angle and temperature dependent)
Full Width at Half Maximum	FWHM = 30 nm
Low intensity absorptance	$A \geq 99 \%$
Low intensity reflectance	$R_{\min} \leq 1 \%$
Saturation fluence	$\Phi_{\text{sat}} = 50 \mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 1 \text{ ps}$
Non-saturable loss	$A_{\text{ns}} = 45 \%$
Chip area	4.0 mm x 4.0 mm; other dimensions on request
Chip thickness	450 $\mu\text{m}$
Front side	dielectric cover

Mounting of RSAM-1030-1ps-x denotes the type of mounting as follows:

x = 4.0-0	unmounted chip 4.0 mm x 4.0 mm
x = 12.7 g	glued on a gold plated Cu-cylinder with 12.7 mm $\varnothing$
x = 25.4 g	glued on a gold plated Cu-cylinder with 25.4 mm $\varnothing$
x = 12.7 s	soldered on a gold plated Cu-cylinder with 12.7 mm $\varnothing$
x = 25.4 s	soldered on a gold plated Cu-cylinder with 25.4 mm $\varnothing$
x = 25.0 w	soldered on a water cooled Cu-cylinder with 25.0 mm $\varnothing$
x = FC	mounted on a 1 m monomode fiber cable with FC/PC connector
x = FC/PC -TEC	mounted on a 1 m monomode fiber cable with FC/PC or other connector type and TEC (thermoelectric cooler) for fine tuning of the resonance wavelength

### Unsaturated spectral reflectance



## Dispersion

