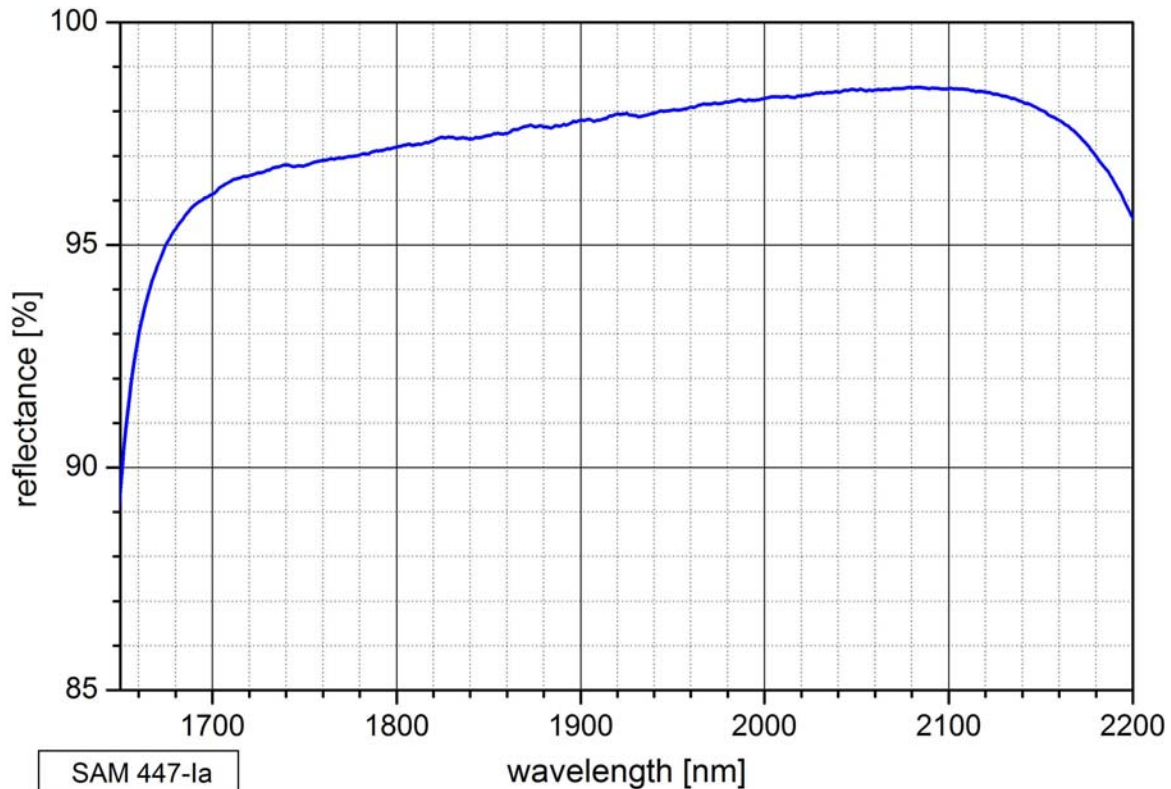


## SAM™ Data Sheet SAM-2000-2-10ps-x, $\lambda = 2000 \text{ nm}$

Laser wavelength	$\lambda = 2000 \text{ nm}$
High reflection band (R > 96%)	$\lambda = 1700 \text{ .. } 2150 \text{ nm}$
Absorbance	$A_0 = 2 \%$
Modulation depth	$\Delta R = 1.2 \%$
Non-saturable loss	$A_{ns} = 0.8 \%$
Saturation fluence	$\Phi_{sat} = 70 \mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 10 \text{ ps}$
Damage threshold	$\Phi = 4 \text{ mJ}/\text{cm}^2$
Chip area	4mm x 4mm; other dimensions on request
Chip thickness	625 $\mu\text{m}$
Design	laser beam goes through the AR coated GaAs substrate
Mounting option <b>x</b> denotes the type of mounting as follows:	
<b>x</b> = 0	unmounted
<b>x</b> = 12.7 g	glued on a gold plated Cu-cylinder with 12.7 mm $\varnothing$
<b>x</b> = 25.4 g	glued on a gold plated Cu-cylinder with 25.4 mm $\varnothing$

### Low intensity spectral reflectance



### Reverse design of the SAM-2000-2-10ps-x

