

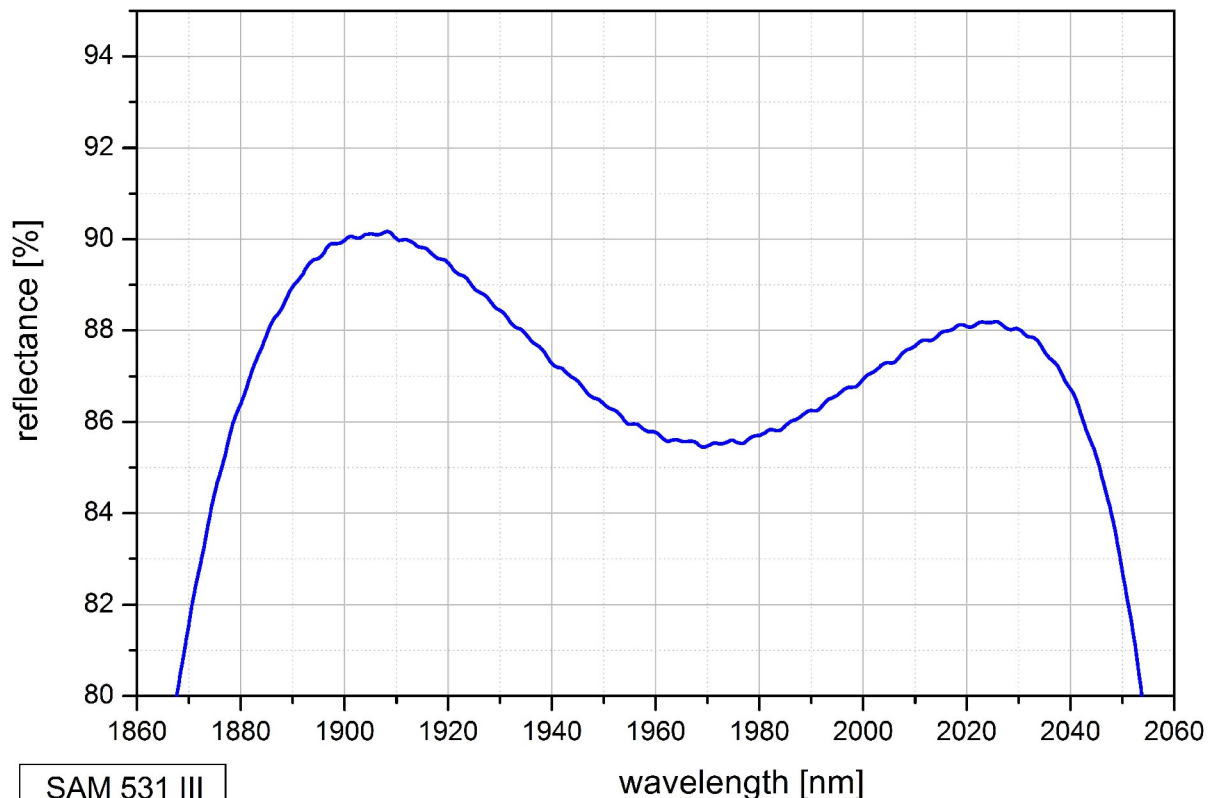
### SAM™ Data Sheet SAM-2000-13-500fs-x, $\lambda = 2000 \text{ nm}$

Laser wavelength	$\lambda = 2000 \text{ nm}$
High reflection band (R > 83%)	$\lambda = 1880 \dots 2040 \text{ nm}$
Absorbance	$A_0 = 13 \%$
Modulation depth	$\Delta R = 8 \%$
Non-saturable loss	$A_{\text{ns}} = 5 \%$
Saturation fluence	$\Phi_{\text{sat}} = 20 \mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 500 \text{ fs}$
Damage threshold	$400 \text{ MW}/\text{cm}^2$
Chip area	4mm x 4mm; other dimensions on request
Chip thickness	400 $\mu\text{m}$
Protection	the SAM is protected with a dielectric front layer

Mounting option **x** 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 $\varnothing$
<b>x</b> = 12.7 s	soldered on a gold plated Cu-cylinder with 12.7 mm $\varnothing$
<b>x</b> = 25.4 s	soldered on a gold plated Cu-cylinder with 25.4 mm $\varnothing$
<b>x</b> = FC	mounted on a 1 m monomode fiber cable with FC connector

#### Low intensity spectral reflectance



SAM 531 III

