

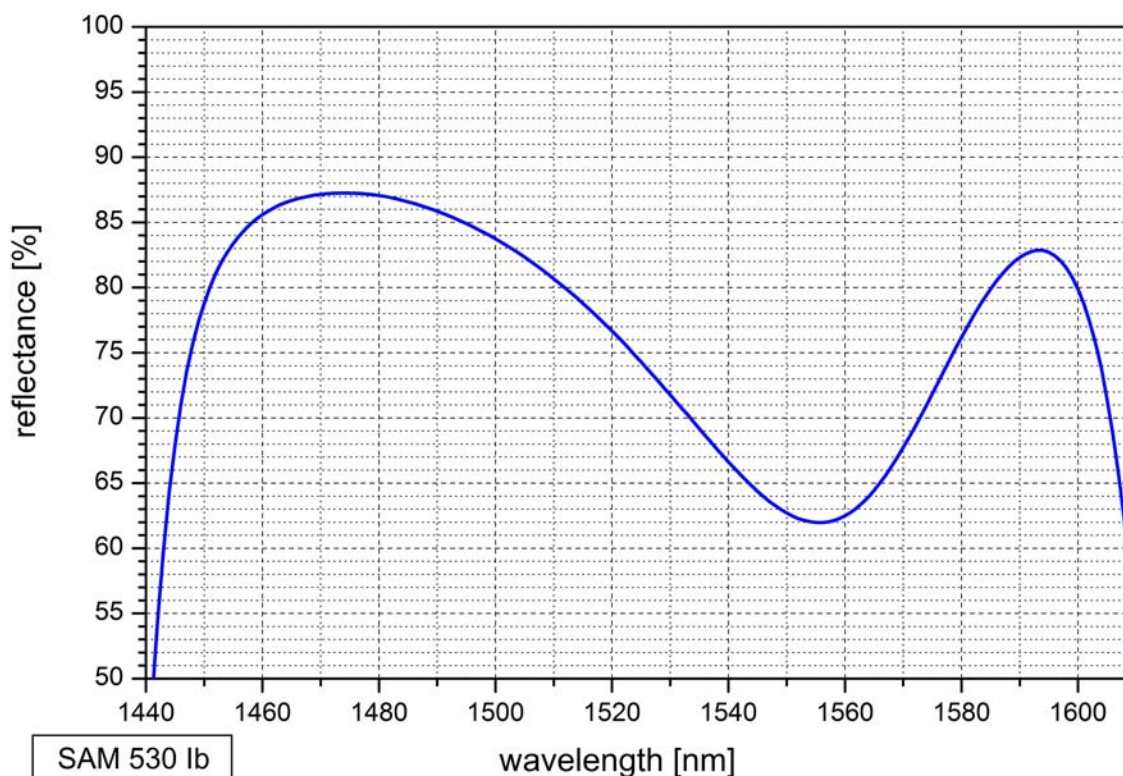
## SAM™ data sheet SAM-1550-37-x-2ps, $\lambda = 1550$ nm

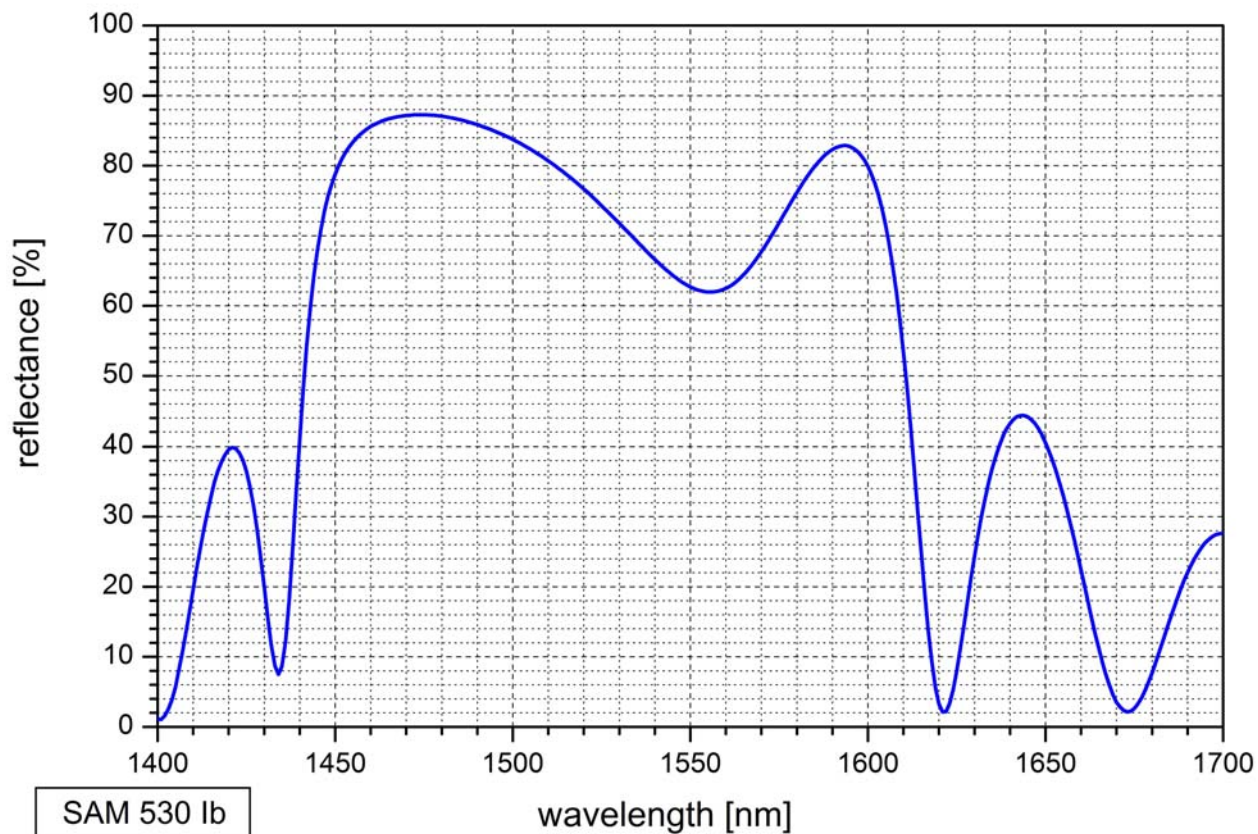
Laser wavelength	$\lambda = 1550$ nm
High reflection band	$\lambda = 1460 \dots 1600$ nm
Absorbance	$A_0 = 37$ %
Modulation depth	$\Delta R = 22$ %
Non-saturable loss	$A_{ns} = 15$ %
Saturation fluence	$\Phi_{sat} = 30$ $\mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 2$ ps
Damage threshold	400 MW/cm <sup>2</sup>
Chip area	4mm x 4mm; other dimensions on request
Chip thickness	400 $\mu\text{m}$ ; optional
Protection	the SAM is protected with a dielectric front layer

Mounting of SAM-1550-35-x-2ps 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> = 25.4 w	soldered on a water cooled 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 530 Ib