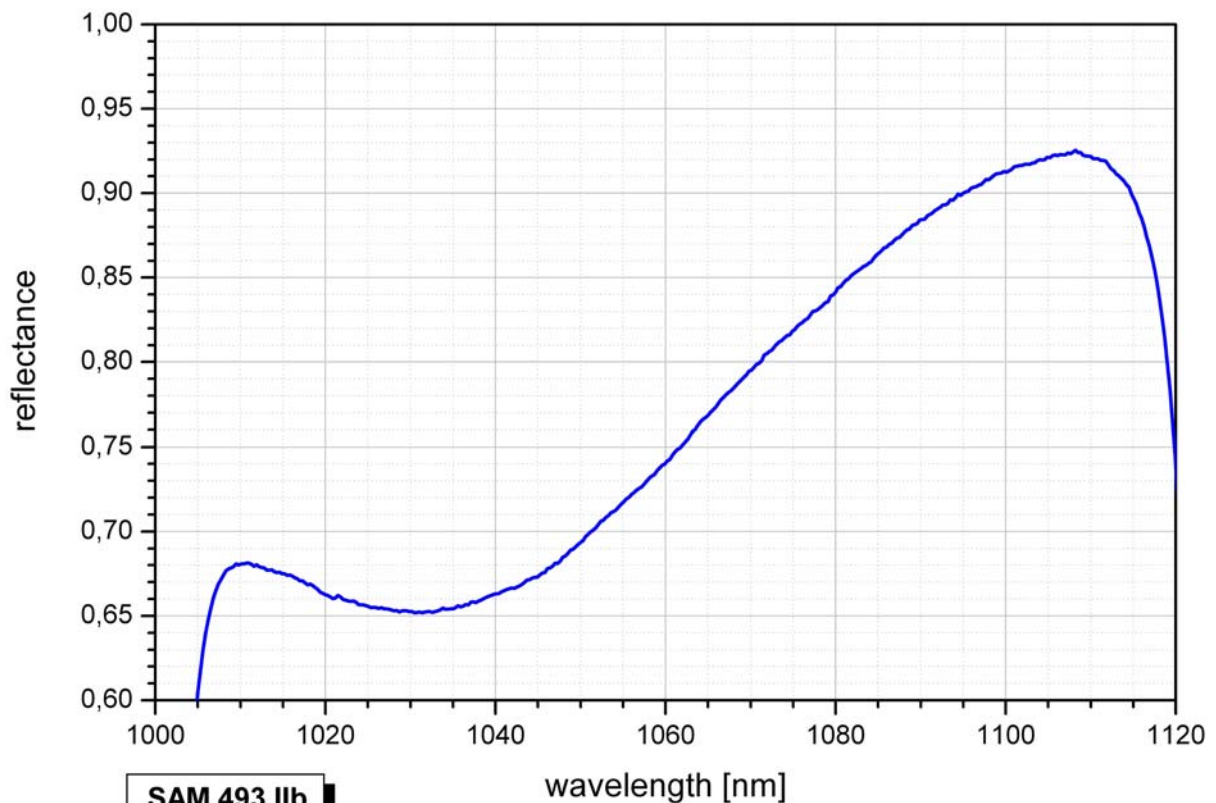


## SAM™ data sheet SAM-1040-32-x-5ps, $\lambda = 1040 \text{ nm}$

Laser wavelength	$\lambda = 1040 \text{ nm}$
High reflection band (R > 65%)	$\lambda = 1010 \dots 1080 \text{ nm}$
Absorptance	$A_0 = 32 \%$
Modulation depth	$\Delta R = 18 \%$
Non-saturable loss	$A_{ns} = 14 \%$
Saturation fluence	$\Phi_{sat} = 85 \mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 5 \text{ ps}$
Damage threshold	$0.4 \text{ GW}/\text{cm}^2$
Chip area	4mm x 4mm; other dimensions on request
Chip thickness	400 $\mu\text{m}$ ; optional: 150 $\mu\text{m}$ on request
Protection	the SAM is protected with a dielectric front layer
Mounting of SAM-1040-32-x-5ps	denotes the type of mounting as follows:
x = 0	unmounted
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 = FC	mounted on a 1 m monomode fiber cable with FC connector

### Low intensity spectral reflectance



**SAM 493 IIb**

