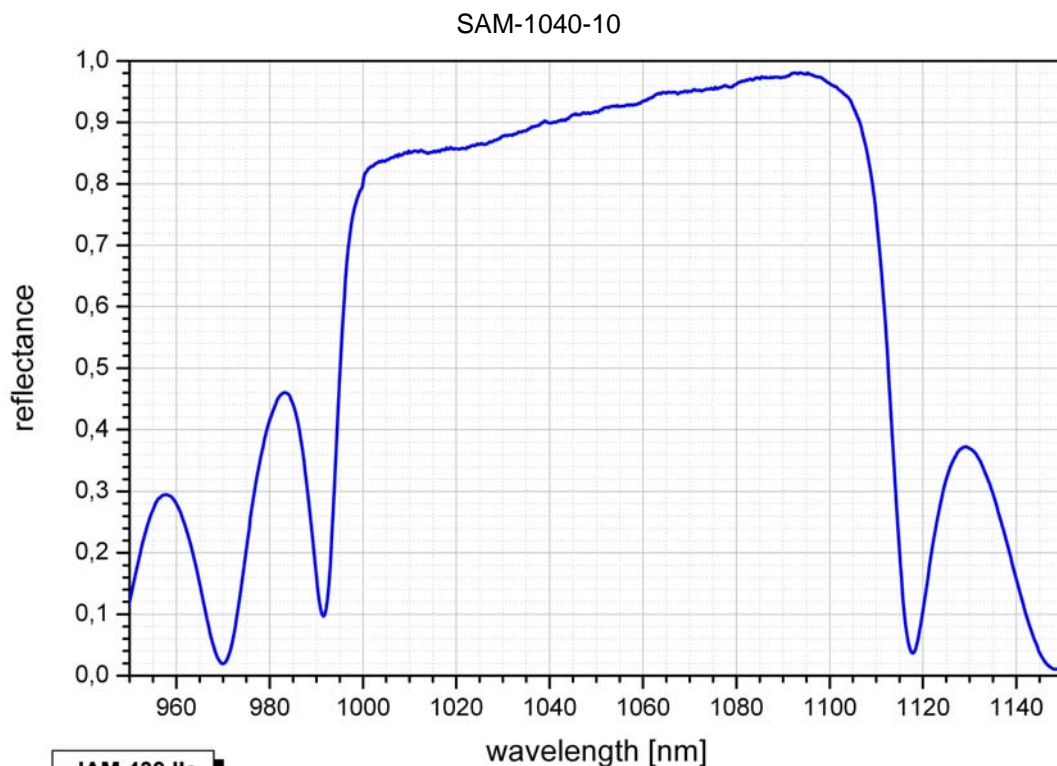


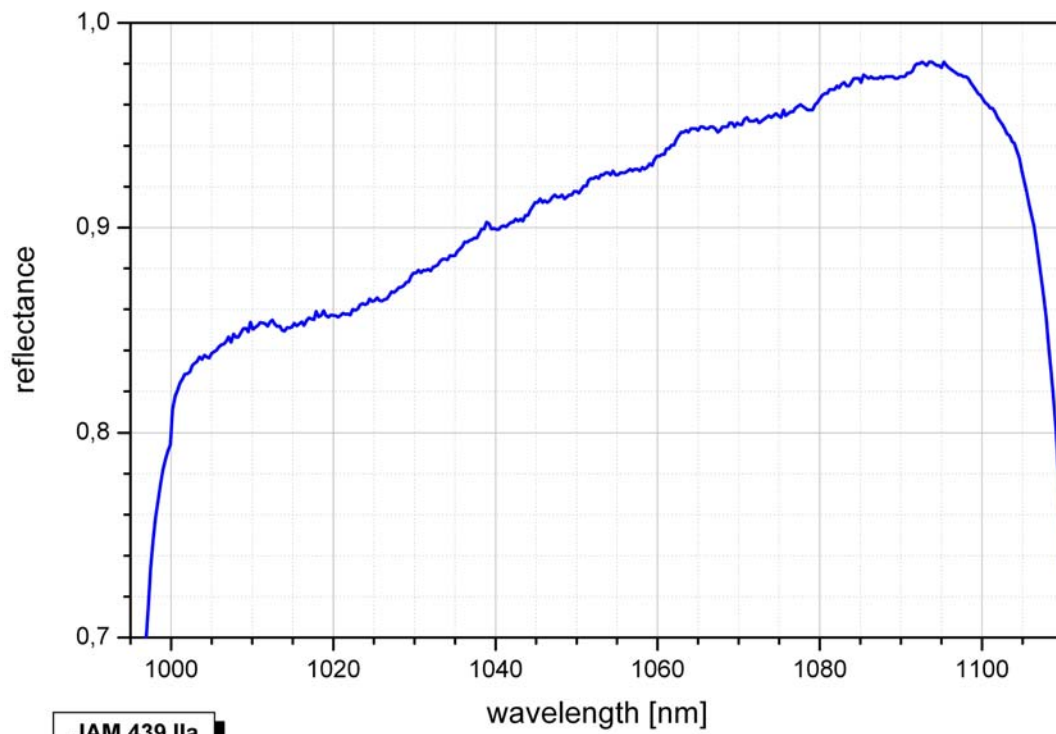
## SAM™ data sheet SAM-1040-10-x-3ps, $\lambda = 1040$ nm

Laser wavelength	$\lambda = 1040$ nm
High reflection band (R > 85%)	$\lambda = 1000 \dots 1110$ nm
Absorbance	$A_0 = 10$ %
Modulation depth	$\Delta R = 7$ %
Non-saturable loss	$A_{ns} = 3$ %
Saturation fluence	$\Phi_{sat} = 80$ $\mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 3$ ps
Damage threshold	500 MW/cm <sup>2</sup>
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-1040-10-x- $\tau$	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



JAM 439 IIa



**JAM 439 IIa**