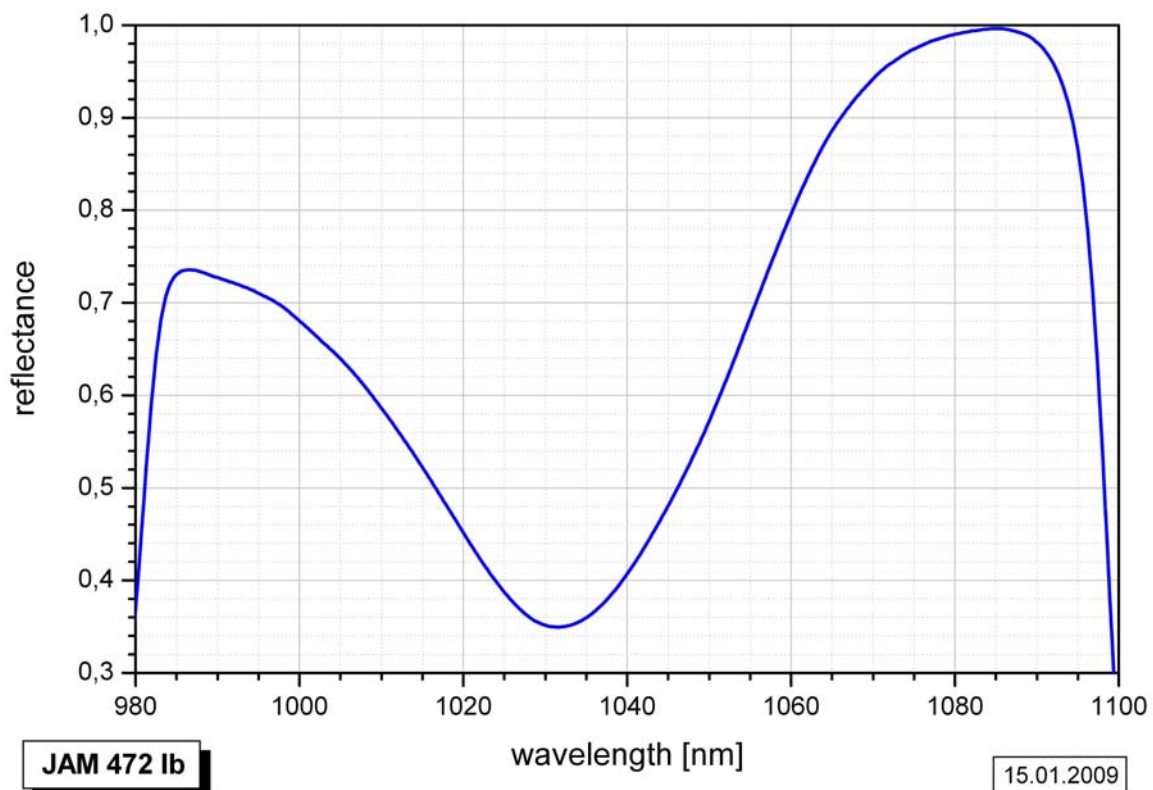


## SAM™ data sheet SAM-1040-60-x-500fs, $\lambda = 1040\text{nm}$

Laser wavelength	$\lambda = 1040\text{ nm}$
High reflection band (R > 35%)	$\lambda = 990 \dots 1090\text{ nm}$
Absorbance	$A_0 = 60\%$
Modulation depth	$\Delta R = 35\%$
Non-saturable loss	$A_{ns} = 25\%$
Saturation fluence	$\Phi_{sat} = 30\ \mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 500\text{ fs}$
Damage threshold	$300\text{ MW}/\text{cm}^2$
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-1040-60-x-500fs	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



JAM 472 lb

15.01.2009

