

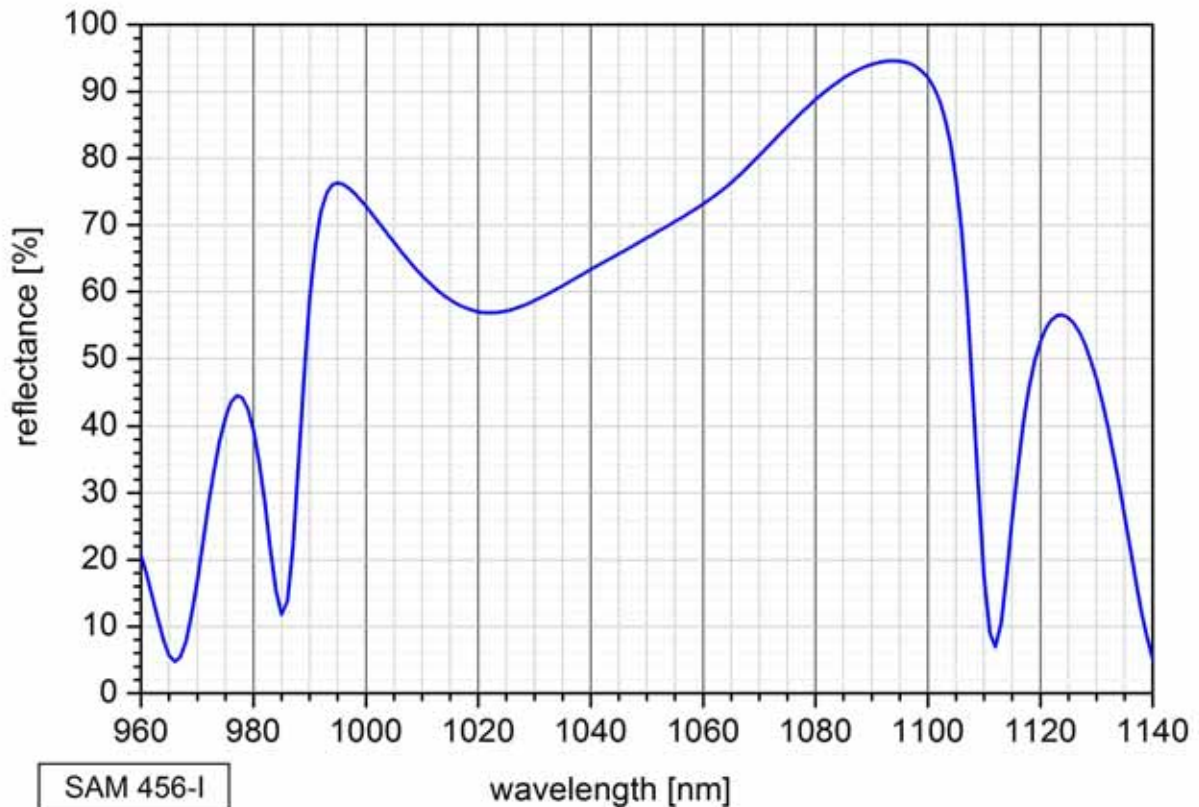
SAM™ Data Sheet SAM-1040-35-9ps-x, $\lambda = 1040$ nm

Laser wavelength	$\lambda = 1040$ nm
High reflection band (R > 55%)	$\lambda = 1000 \dots 1100$ nm
Absorbance	$A_0 = 35$ %
Modulation depth	$\Delta R = 18$ %
Non-saturable loss	$A_{ns} = 17$ %
Saturation fluence	$\Phi_{sat} = 20$ $\mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 9$ ps
Damage threshold	$\Phi = 1.5$ mJ/cm^2
Chip area	4mm x 4mm; other dimensions on request
Chip thickness	400 μm ; optional: 150 μm on request
Protection	the SAM is protected with a dielectric front layer

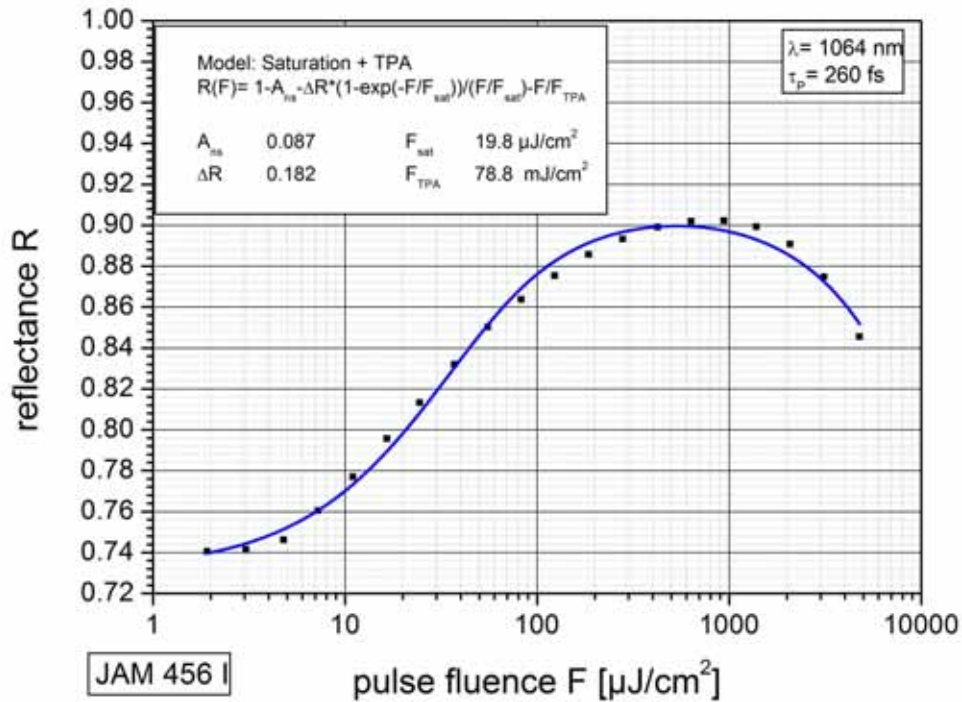
Mounting option **x** denotes the type of mounting as follows:

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 = 25.0 w	soldered on a water cooled Cu-cylinder with 25.0 mm \varnothing
x = FC	mounted on a 1 m monomode fiber cable with FC connector

Low intensity spectral reflectance



Saturation measurement



Pump-probe measurement

