

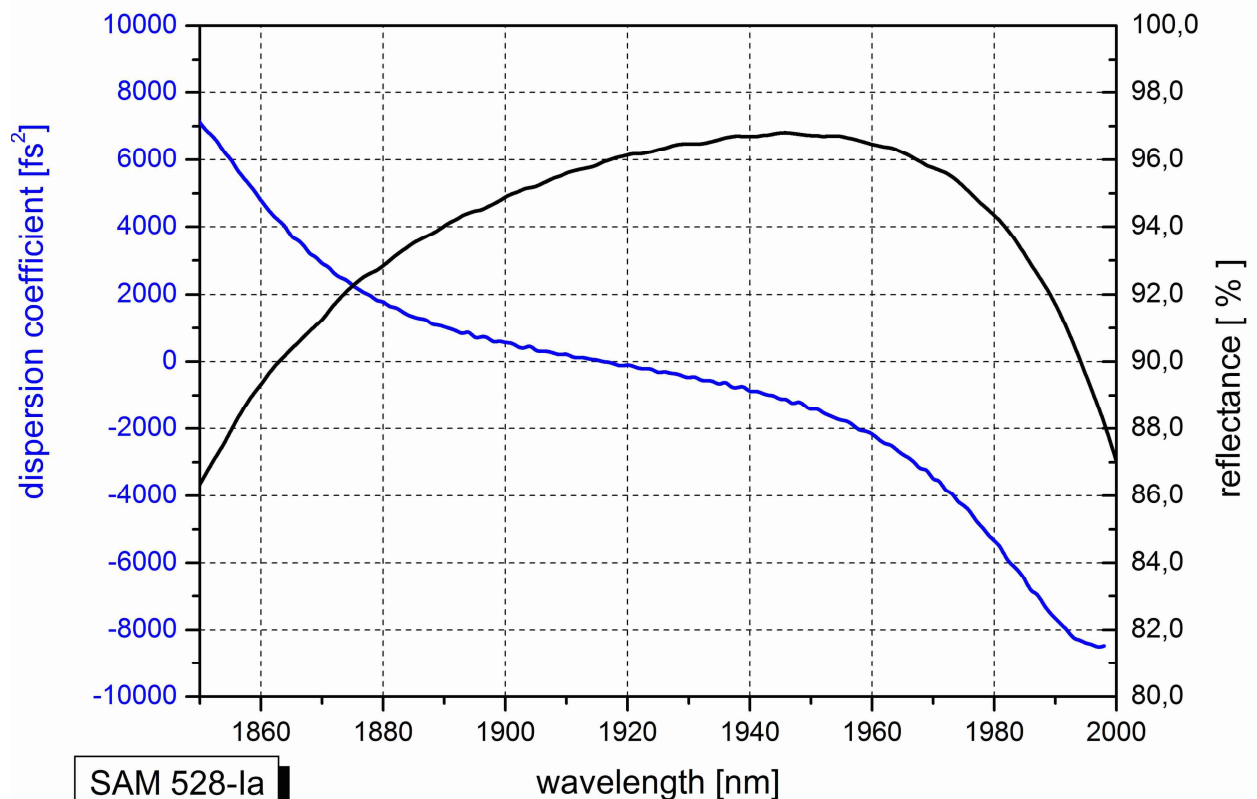
SAM™ Data Sheet SAM-1920-4-40ps-x, $\lambda = 1920$ nm

Laser wavelength	$\lambda = 1920$ nm
High reflection band	$\lambda = 1870 \dots 1990$ nm
Absorbance	$A_0 = 4$ %
Modulation depth	$\Delta R = 2.6$ %
Non-saturable loss	$A_{ns} = 1.4$ %
Saturation fluence	$\Phi_{sat} = 35$ $\mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 40$ ps
Damage threshold	$\Phi = 3$ mJ/cm^2
Chip area	4.0 mm x 4.0 mm; other dimensions on request
Chip thickness	450 μm
Protection	the SAM is protected with a dielectric front layer

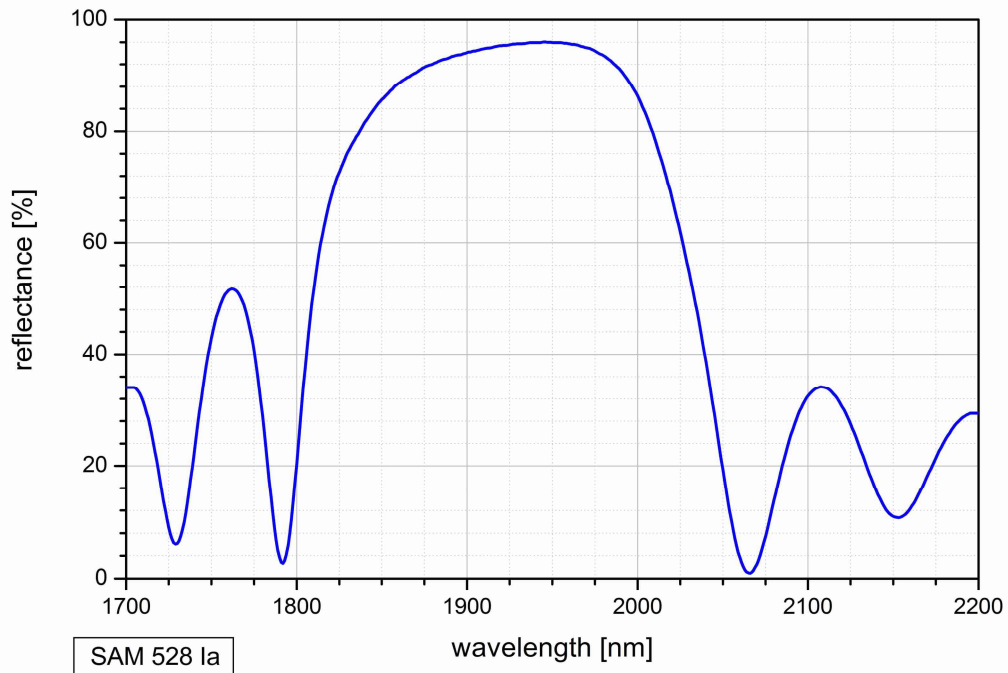
Mounting option **x** denotes the type of mounting as follows:

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 = FC	mounted on a 1 m monomode fiber cable with FC connector

Low intensity spectral reflectance and dispersion coefficient D_2



SAM 528-la



Pump-probe measurement

The pump-probe measurement has been done by Dr. Uwe Griebner, Max-Born-Institut Berlin, Germany. The measured data can be fitted using a twofold exponential decay function with two amplitudes A_1 and A_2 and two corresponding time constants τ_1 and τ_2 .

