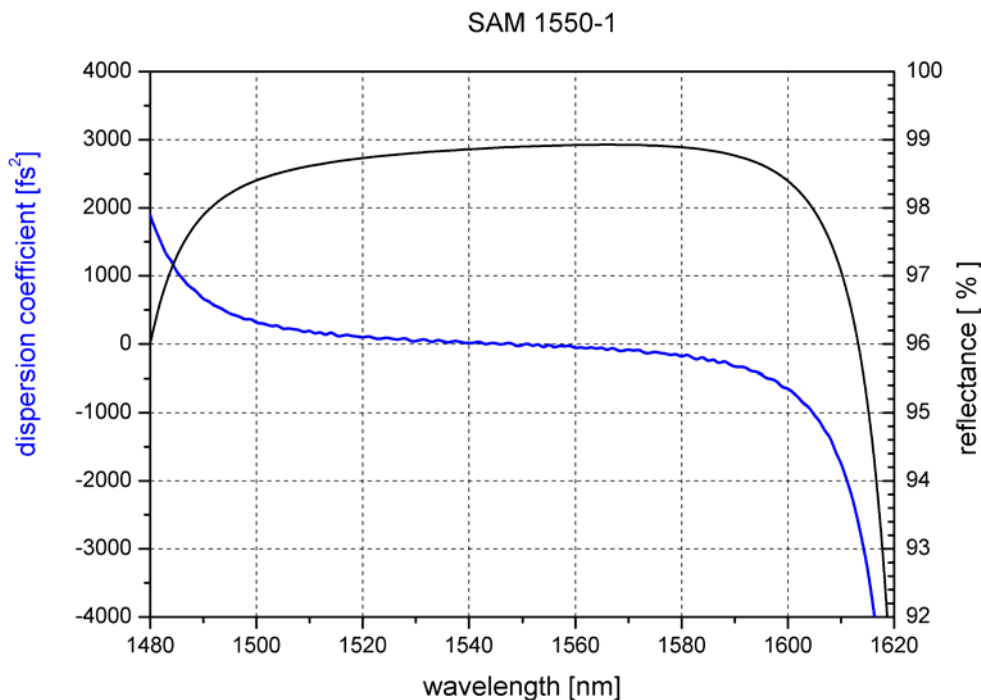


SAM™ data sheet SAM-1550-1-x-10ps, $\lambda = 1550$ nm

Laser wavelength	$\lambda = 1550$ nm
High reflection band (R > 98%)	$\lambda = 1500 \dots 1600$ nm
Absorbance	$A_0 = 1$ %
Modulation depth	$\Delta R = 0.6$ %
Non-saturable loss	$A_{ns} = 0.4$ %
Saturation fluence	$\Phi_{sat} = 70$ $\mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 10$ ps
Damage threshold	1 GW/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 of SAM-1550-1-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



Group Delay Dispersion (GDD)

Dispersion coefficient $D_2(\omega) = \frac{\partial^2 \varphi}{\partial \omega^2}$

with

- reflected phase

- angular frequency