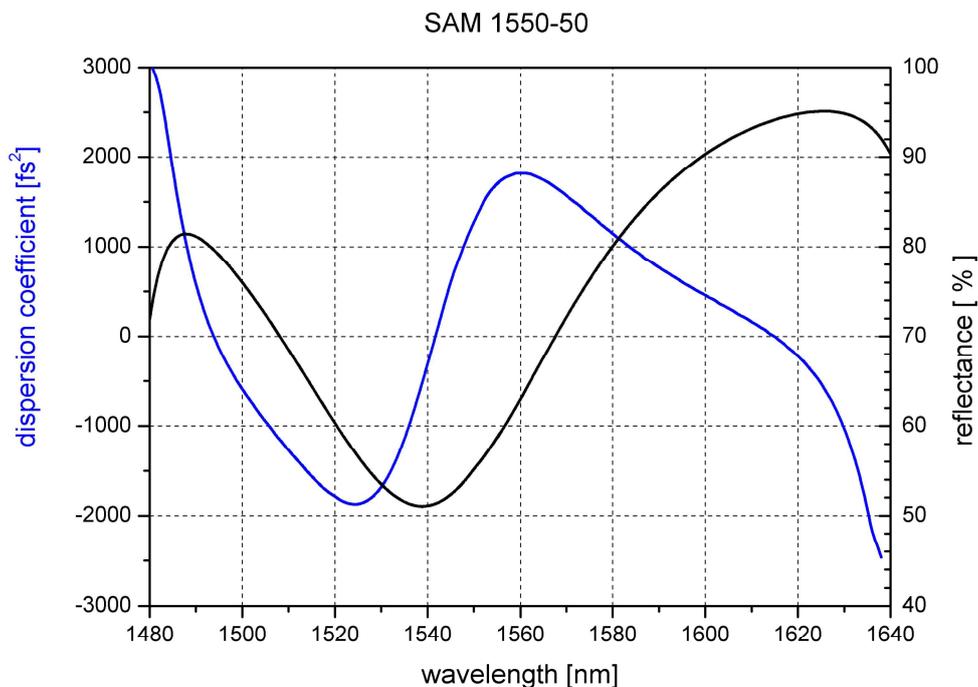


SAM™ Data Sheet SAM-1550-50-10ps-x, $\lambda = 1550$ nm

Laser wavelength	$\lambda = 1550$ nm
High reflection band	$\lambda = 1460 \dots 1600$ nm
Absorbance	$A_0 = 50$ %
Modulation depth	$\Delta R = 30$ %
Non-saturable loss	$A_{ns} = 20$ %
Saturation fluence	$\Phi_{sat} = 70$ $\mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 10$ ps
Damage threshold	$\Phi = 700$ $\mu\text{J}/\text{cm}^2$
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



Group Delay Dispersion (GDD)

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

with

φ - reflected phase

$\omega = 2\pi \frac{c}{\lambda}$ - angular frequency