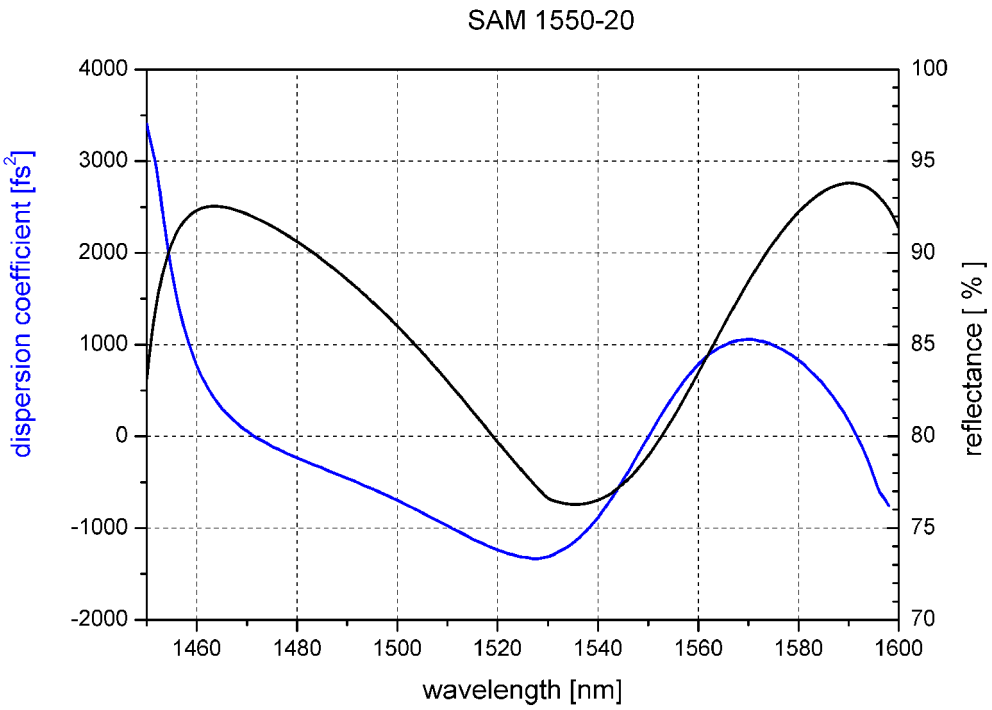
SAM™ Data Sheet SAM-1550-20-12ps-x, λ = 1550 nm

Laser wavelength	λ = 1550 nm
High reflection band (R > 86%)	λ = 1460 .. 1600 nm
Absorbance	A_0 = 20 %
Modulation depth	ΔR = 12 %
Non-saturable loss	A_{ns} = 8 %
Saturation fluence	Φ_{sat} = 50 µJ/cm²
Relaxation time constant	τ ~ 12 ps
Damage threshold	500 MW/cm²
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 ∅
x = 25.4 g	glued on a gold plated Cu-cylinder with 25.4 mm ∅
x = 12.7 s	soldered on a gold plated Cu-cylinder with 12.7 mm ∅
x = 25.4 s	soldered on a gold plated Cu-cylinder with 25.4 mm ∅
x = FC	mounted on a 1 m monomode fiber cable with FC connector

Low intensity spectral reflectance and dispersion coefficient D_2



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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

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