

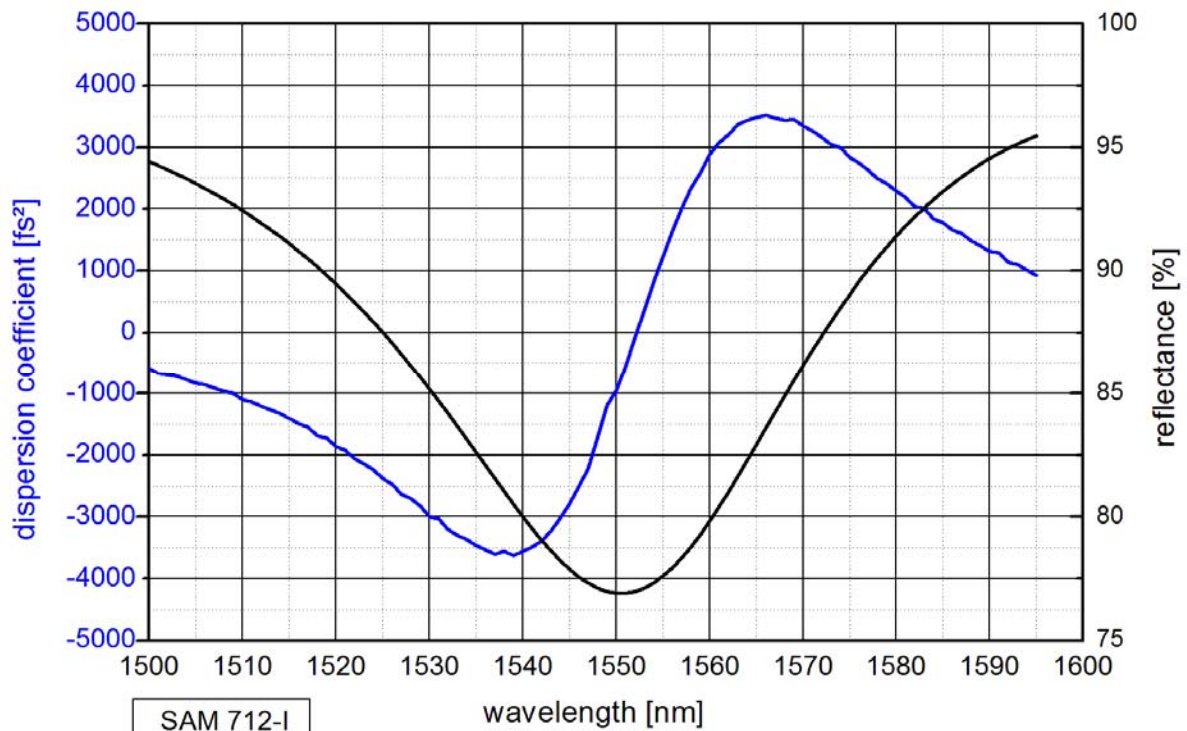
SAM™ data sheet SAM-1550-22-5ps-x, $\lambda = 1550 \text{ nm}$

Laser wavelength	$\lambda = 1550 \text{ nm}$
High reflection band	$\lambda = 1480 \dots 1600 \text{ nm}$
Absorbance	$A_0 = 22 \%$
Modulation depth	$\Delta R = 13 \%$
Non-saturable loss	$A_{ns} = 9 \%$
Saturation fluence	$\Phi_{sat} = 60 \mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau = 5 \text{ ps}$
Damage threshold	$500 \mu\text{J}/\text{cm}^2$
Chip area	4mm x 4mm; 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** = 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 and dispersion coefficient D_2



Second and third order dispersion

