

## SAM™ Data Sheet SAM-1550-10-5ps-x, λ = 1550 nm

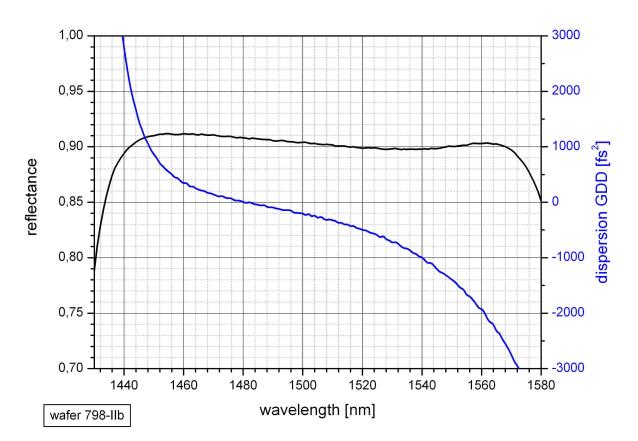
Laser wavelength		λ = 1550 nm		
High reflection band		λ = 1450 1570 nm		
Absorbance		A <sub>0</sub> = 10 %		
Modulation depth		$\Delta R = 4 \%$		
Non-saturable loss		A <sub>ns</sub> = 6 %		
Saturation fluence		$\Phi_{sat}$ = 15 µJ/cm <sup>2</sup>		
Relaxation time constant		τ = 5 ps		
Damage threshold		$\Phi$ = 1 mJ/cm <sup>2</sup>		
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		
<b>x</b> = 0 <b>x</b> = 1		type of mounting as follows: unmounted glued on a gold plated Cu-cylinder with 12.7 mm $\varnothing$ glued on a gold plated Cu-cylinder with 25.4 mm $\varnothing$		

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<b>x</b> = 12.7 s	soldered c	on a gold	plated Cu-cylinder v	with 12	.7 mm Ø

**x** = 25.4 s soldered on a gold plated Cu-cylinder with 25.4 mm  $\emptyset$ 

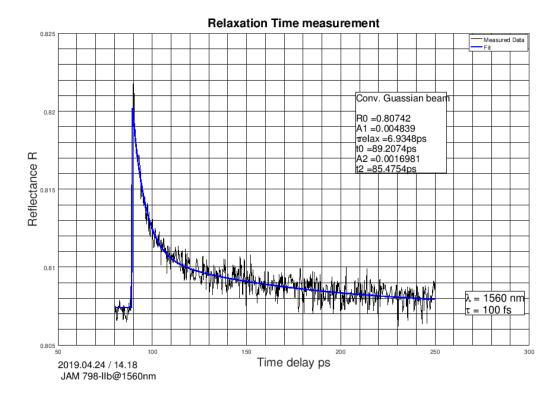
<b>x</b> = FC	mounted on a 1 m	monomode	fiber cable with	FC connector

## Low intensity spectral reflectance and dispersion



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Saturation Measurement

