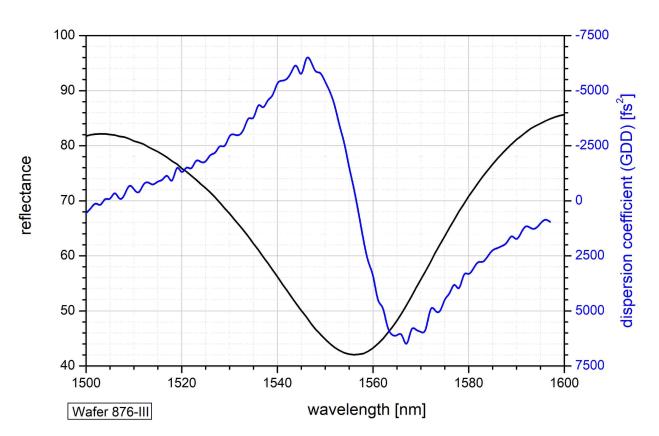


## SAM™ Data Sheet SAM-1550-55-2ps-x, λ = 1550 nm

| Laser wavelength   | $\lambda$ = 1550 nm   |
|--|---|
| High reflection band   | λ = 1500 1600 nm  |
| Absorbance   | A <sub>0</sub> = 55 %                                       |
| Modulation depth   | ∆R = 34 %   |
| Non-saturable loss   | A <sub>ns</sub> = 21 %                                      |
| Saturation fluence   | $\Phi_{sat}$ = 40 µJ/cm <sup>2</sup>                        |
| Relaxation time constant   | τ ~ 2 ps  |
| Damage threshold   | $\Phi = 1 \text{ mJ/cm}^2$                                  |
| Chip area  | 4.0mm x 4.0mm; other dimensions on request                  |
| Chip thickness   | 450 μm  |
| Protection   | the SAM is protected with a dielectric front layer          |
| Mounting option <b>x</b> denotes the $\mathbf{x} = 0$<br><b>x</b> = 12.7 g | unmounted   |
| <b>x</b> = 25.4 g  | alued on a gold plated Cu-cylinder with 25.4 mm $\emptyset$ |

| <b>x</b> = 25.4 g | glued on a gold plated Cu-cylinder with 25.4 mm $\varnothing$   |
|-------------------|---|
| <b>x</b> = 12.7 s | soldered on a gold plated Cu-cylinder with 12.7 mm $arnothing$  |
| <b>x</b> = 25.4 s | soldered on a gold plated Cu-cylinder with 25.4 mm $arnothing$  |
| <b>x</b> = 25.0 w | soldered on a water cooled Cu-cylinder with 25.0 mm $arnothing$ |
| <b>x</b> = FC     | mounted on a 1 m monomode fiber cable with FC connector         |

## Low intensity spectral reflectance and dispersion



1