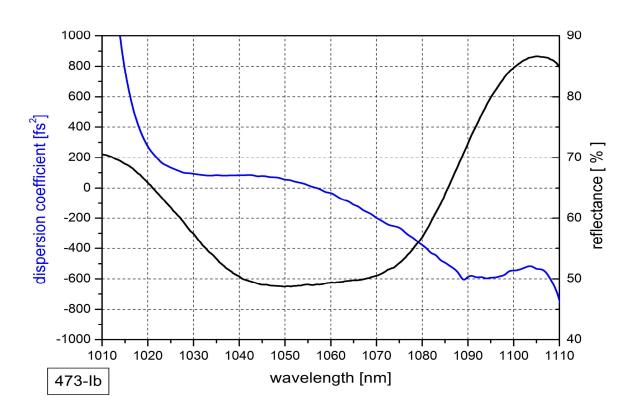


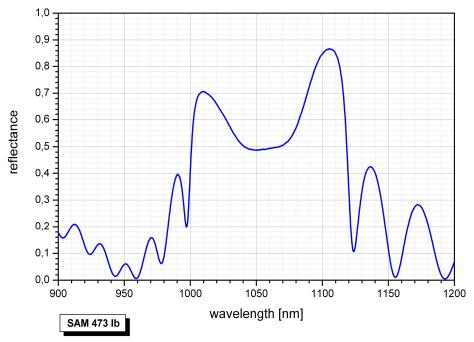
# SAM<sup>TM</sup> Data Sheet SAM-1040-50-12ps-x, $\lambda$ = 1040 nm

$\lambda = 1040 \text{ nm}$
λ = 1010 1110 nm
A <sub>0</sub> = 50 %
ΔR = 40 %
A <sub>ns</sub> = 10 %
$\Phi_{sat}$ = 19 µJ/cm <sup>2</sup>
τ ~ 12 ps
$\Phi$ = 800 µJ/cm <sup>2</sup>
4.0 mm x 4.0 mm; other dimensions on request
450 μm
the SAM is protected with a dielectric front layer
type of mounting as follows: unmounted glued on a gold plated Cu-cylinder with 12.7 mm $\emptyset$ glued on a gold plated Cu-cylinder with 25.4 mm $\emptyset$ soldered on a gold plated Cu-cylinder with 12.7 mm $\emptyset$ soldered on a gold plated Cu-cylinder with 25.4 mm $\emptyset$ mounted on a 1 m monomode fiber cable with FC connect

### Low intensity spectral reflectance and dispersion coefficient D<sub>2</sub>



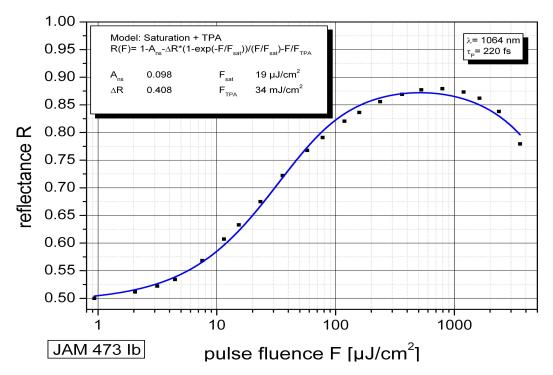




#### **Group Delay Dispersion (GDD)**

Dispersion coefficient  $D_2(\omega) = \frac{\partial^2 \varphi}{\partial \omega^2}$  with  $\varphi$  - reflected phase  $\omega = 2\pi \frac{c}{\lambda}$  - angular frequency

## **Saturation measurement**



#### **Pump-probe measurement**

3



