

## SAM<sup>TM</sup> Data Sheet SAM-1064-13-500fs-x, $\lambda$ = 1064 nm

Laser wavelength  $\lambda = 1064 \text{ nm}$ 

High reflection band  $\lambda = 1020 ... 1100 \text{ nm}$ 

Absorbance  $A_0 = 13 \%$  Modulation depth  $\Delta R = 8 \%$  Non-saturable loss  $A_{ns} = 5 \%$ 

Saturation fluence  $\Phi_{sat} = 60 \,\mu\text{J/cm}^2$ 

Relaxation time constant  $\tau \sim 500 \text{ fs}$ 

Damage threshold  $\Phi = 2.5 \text{ mJ/cm}^2$ 

Chip area 4.0 mm x 4.0 mm; other dimensions on request

Chip thickness 450 µm

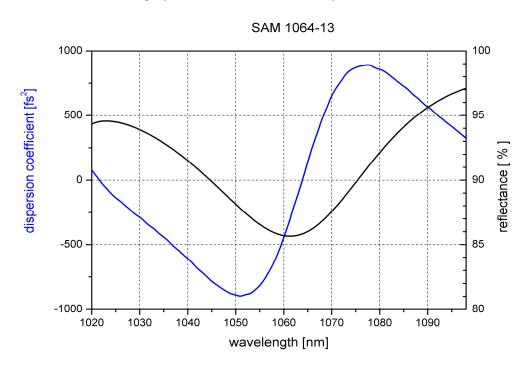
Protection the SAM is protected with a dielectric front layer

Mounting option  $\mathbf{x}$  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 Ø
x = 25.4 g glued on a gold plated Cu-cylinder with 25.4 mm Ø
x = 12.7 s soldered on a gold plated Cu-cylinder with 12.7 mm Ø
x = 25.4 s soldered on a gold plated Cu-cylinder with 25.4 mm Ø

x = FC mounted on a 1 m monomode fiber cable with FC connector

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





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