

## SAM™ Data Sheet SAM-1420-4-10ps-x, λ = 1420 nm

Laser wavelength  $\lambda = 1420 \text{ nm}$ 

High reflection band  $\lambda = 1360 ... 1460 \text{ nm}$ 

Absorbance  $A_0 = 4 \%$  Modulation depth  $\Delta R = 2.5 \%$  Non-saturable loss  $A_{ns} = 1.5 \%$  Saturation fluence  $\Phi_{sat} = 50 \ \mu \text{J/cm}^2$ 

Relaxation time constant  $\tau \sim 10 \text{ ps}$ Damage threshold  $\Phi = 1 \text{ mJ/cm}^2$ 

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 **x** denotes the type of mounting as follows:

 $\mathbf{x} = 0$ unmounted glued on a gold plated Cu-cylinder with 12.7 mm Ø x = 12.7 gx = 25.4 gglued on a gold plated Cu-cylinder with 25.4 mm  $\varnothing$ soldered on a gold plated Cu-cylinder with 12.7 mm  $\varnothing$ x = 12.7 sx = 25.0 ssoldered on a gold plated Cu-cylinder with 25.0 mm  $\varnothing$ soldered on a gold plated Cu-cylinder with 25.4 mm Ø x = 25.4 sx = 25.0 wsoldered on a water cooled Cu-cylinder with 25.4 mm  $\varnothing$ x = FCmounted on a 1 m monomode fiber cable with FC connector

## Low intensity spectral reflectance





