

## SAM<sup>TM</sup> Data Sheet SAM-1100-70-500fs-x, $\lambda$ = 1100 nm

Laser wavelength  $\lambda = 1100 \text{ nm}$ 

High reflection band  $\lambda = 1040 ... 1150 \text{ nm}$ 

Absorptance  $A_0 = 70 \%$ Modulation depth  $\Delta R = 40 \%$ Non-saturable loss  $A_{ns} = 30 \%$ 

Saturation fluence  $\Phi_{sat} = 70 \mu J/cm^2$ 

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

Absorber layer multiple quantum well

Damage threshold  $\Phi = 900 \,\mu\text{J/cm}^2$ 

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:

x = 0 unmounted

x = 12.7 gglued on a copper heat sink with 12.7 mm  $\varnothing$ x = 25.4 gglued on a copper heat sink with 25.4 mm  $\varnothing$ x = 12.7 ssoldered on a copper heat sink with 12.7 mm  $\varnothing$ x = 25.4 ssoldered on a copper heat sink with 25.4 mm  $\varnothing$ 

x = 25.0 w soldered water cooled copper heat sink with 25.0 mm  $\varnothing$ 

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

## Low intensity spectral reflectance

