

## SAM<sup>TM</sup> Data Sheet SAM-1040-1-10ps-x, $\lambda$ = 1040 nm

Laser wavelength  $\lambda = 1040 \text{ nm}$ 

High reflection band  $\lambda = 1000 ... 1090 \text{ nm}$ 

Absorbance  $A_0 = 1 \%$  Modulation depth  $\Delta R = 0.6 \%$  Non-saturable loss  $A_{ns} = 0.4 \%$  Saturation fluence  $\Phi_{sat} = 70 \ \mu \text{J/cm}^2$ 

Relaxation time constant  $\tau \sim 10 \text{ ps}$ 

Damage threshold  $\Phi = 3 \text{ mJ/cm}^2$ 

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

Chip thickness 450 µm

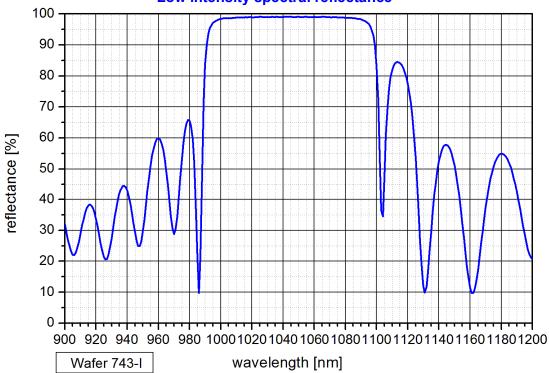
Protection the SAM is protected with a dielectric front layer

Mounting option  $\mathbf{x}$  denotes the type of mounting as follows:

x = 0 unmounted

 $x = 12.7 \, \mathrm{g}$ glued on a gold plated Cu-cylinder with 12.7 mm  $\varnothing$  $x = 25.4 \, \mathrm{g}$ glued on a gold plated Cu-cylinder with 25.4 mm  $\varnothing$  $x = 12.7 \, \mathrm{s}$ soldered on a gold plated Cu-cylinder with 12.7 mm  $\varnothing$  $x = 25.4 \, \mathrm{s}$ soldered on a gold plated Cu-cylinder with 25.4 mm  $\varnothing$  $x = 25.4 \, \mathrm{w}$ soldered 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



Data Sheet



