

## SAM<sup>TM</sup> Data Sheet SAM-1040-8-1ps-x, $\lambda$ = 1040 nm

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

High reflection band (R > 88%)  $\lambda$  = 1020 .. 1100 nm

Absorbance  $A_0 = 8 \%$  Modulation depth  $\Delta R = 5 \%$  Non-saturable loss  $A_{ns} = 3 \%$ 

Saturation fluence  $\Phi_{sat} = 40 \,\mu\text{J/cm}^2$ 

Relaxation time constant  $\tau \sim 1 \text{ ps}$ 

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

Chip area 4mm x 4mm; other dimensions on request

Chip thickness 450 µm; optional: 150 µm on request

Protection the SAM is protected with a dielectric front layer

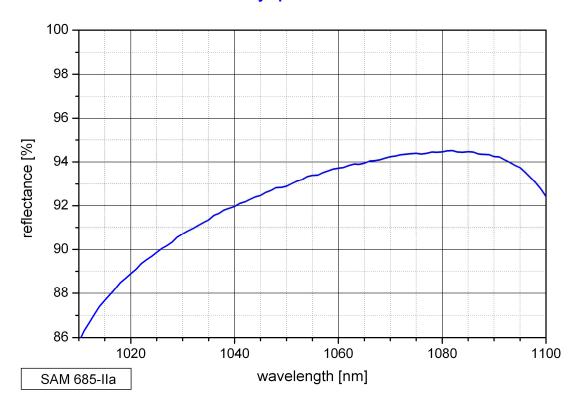
Mounting option  $\mathbf{x}$  denotes the type of mounting as follows:

x = 0 unmounted

 $x = 12.7 \, \mathrm{g}$ glued on a copper heat sink with 12.7 mm  $\varnothing$  $x = 25.4 \, \mathrm{g}$ glued on a copper heat sink with 25.4 mm  $\varnothing$  $x = 12.7 \, \mathrm{s}$ soldered on a copper heat sink with 12.7 mm  $\varnothing$  $x = 25.4 \, \mathrm{s}$ soldered on a copper heat sink with 25.4 mm  $\varnothing$ 

x = 25.0 w soldered on a water cooled copper heat sink with 25.0 mm ∅ x = FC mounted on a 1 m single mode fiber with FC connector

## Low intensity spectral reflectance





## Low intensity spectral reflectance and dispersion

