

## SAM<sup>TM</sup> data sheet SAM-940-4-x-1ps, $\lambda$ = 940 nm

Laser wavelength  $\lambda = 940 \text{ nm}$ 

High reflection band (R > 95%)  $\lambda$  = 910 .. 990 nm

Absorbance  $A_0 = 4 \%$  Modulation depth  $\Delta R = 2.6 \%$  Non-saturable loss  $A_{ns} = 1.4 \%$  Saturation fluence  $\Phi_{sat} = 70 \ \mu \text{J/cm}^2$ 

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

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

Chip thickness 400 µm

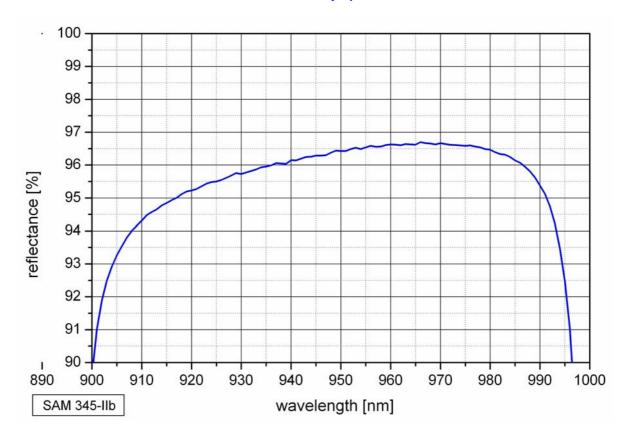
Protection the SAM is protected with a dielectric front layer

Mounting of SAM-940-4-x-1ps denotes the type of mounting as follows:

 $\mathbf{x} = 0$ unmounted $\mathbf{x} = 12.7 \, \mathrm{g}$ glued on a copper heat sink with 12.7 mm  $\varnothing$  $\mathbf{x} = 25.4 \, \mathrm{g}$ glued on a copper heat sink with 25.4 mm  $\varnothing$  $\mathbf{x} = 12.7 \, \mathrm{s}$ soldered on a copper heat sink with 12.7 mm  $\varnothing$  $\mathbf{x} = 25.4 \, \mathrm{s}$ soldered on a copper heat sink with 25.4 mm  $\varnothing$ 

x = 25.0 h soldered on a water cooled copper heat sink with 25.0 mm  $\varnothing$ x = FC mounted on a 1 m singlemode fiber cable with FC connector

## low intensity spectral reflectance



VAT Reg. No: DE 813698804 Tax Acc. No: 161/106/02514 Local Court Jena HRB 112769

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