1



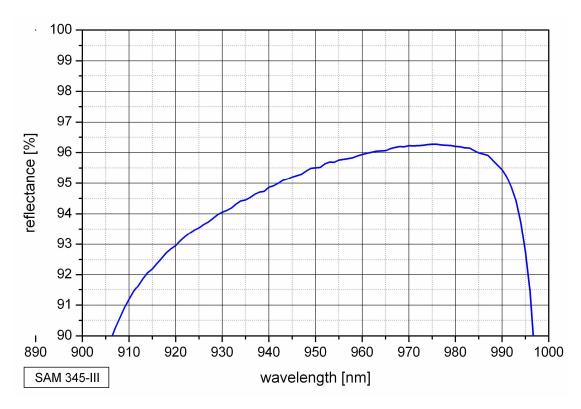
## SAM<sup>™</sup> Data Sheet SAM-940-5-1ps-x, λ = 940 nm

Laser wavelength		$\lambda = 940 \text{ nm}$
High reflection band		λ = 920 990 nm
Absorbance		A <sub>0</sub> =5 %
Modulation depth		ΔR = 3 %
Non-saturable loss		A <sub>ns</sub> = 2 %
Saturation fluence		$\Phi_{sat}$ = 60 µJ/cm <sup>2</sup>
Relaxation time constant		τ ~ 1 ps
Damage threshold		$\Phi = 2 \text{ mJ/cm}^2$
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	<b>x</b> denotes the <b>x</b> = 0 <b>x</b> = 12.7 g <b>x</b> = 25.4 g <b>x</b> = 12.7 s	type of mounting as follows: unmounted glued on a copper heat sink with 12.7 mm $\emptyset$ glued on a copper heat sink with 25.4 mm $\emptyset$ soldered on a copper heat sink with 12.7 mm $\emptyset$

<b>X</b> = 12.7 s	soldered on a copper neat sink with 12.7 mm $\oslash$
x = 25.4 c	coldered on a conner best sink with $2E.4$ mm $\propto$

X – 25.4 S	soldered on a copper heat sink with 25.4 mm $\oslash$
<b>x</b> = 25.0 h	soldered on a water cooled copper heat sink with 25.0 mm $\varnothing$
<b>x</b> = FC	mounted on a 1 m singlemode fiber cable with FC connector

## low intensity spectral reflectance



www.batop.de