

## SAM<sup>™</sup> data sheet SAM-800-32-1ps-x, $\lambda$ = 880 nm

Laser wavelength	λ = 800 nm
High reflection band	λ = 780 840 nm
Absorbance	A <sub>0</sub> = 32 %
Modulation depth	ΔR = 20 %
Non-saturable loss	A <sub>ns</sub> = 12 %
Saturation fluence	$\Phi_{sat}$ = 50 µJ/cm <sup>2</sup>
Relaxation time constant	τ ~ 1 ps
Damage threshold	$\Phi = 1 \text{ mJ/cm}^2$
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 $\mathbf{x} = 0$	type of mounting as follows: unmounted glued on a gold ploted Cu gylinder with 12.7 mm G

x = 12.7 g x = 25.4 g x = 12.7 s x = 25.4 s x = 25.0 w	glued on a gold plated Cu-cylinder with 12.7 mm $\emptyset$ glued on a gold plated Cu-cylinder with 25.4 mm $\emptyset$ soldered on a gold plated Cu-cylinder with 12.7 mm $\emptyset$ soldered on a gold plated Cu-cylinder with 25.4 mm $\emptyset$ soldered on a water cooled Cu-cylinder with 25.0 mm $\emptyset$ mounted on a 1 m monomode fiber cable with EC connector
<b>x</b> = FC	mounted on a 1 m monomode fiber cable with FC connector

## Low intensity spectral reflectance

