

**SAM™ Data Sheet SAM-1040-1-1ps-x,  $\lambda = 1040 \text{ nm}$**

Laser wavelength	$\lambda = 1040 \text{ nm}$
High reflection band	$\lambda = 1000 \dots 1070 \text{ nm}$
Absorbance	$A_0 = 1 \%$
Modulation depth	$\Delta R = 0.6 \%$
Non-saturable loss	$A_{ns} = 0.4 \%$
Saturation fluence	$\Phi_{sat} = 70 \mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 1\text{ps}$
Damage threshold	$\Phi = 3 \text{ mJ}/\text{cm}^2$
Chip area	4.0 mm x 4.0 mm; other dimensions on request
Chip thickness	450 $\mu\text{m}$
Protection	the SAM is protected with a dielectric front layer

Mounting option **x** denotes the type of mounting as follows:

- x = 0** unmounted
- x = 12.7 g** glued on a gold plated Cu-cylinder with 12.7 mm  $\varnothing$
- x = 25.4 g** glued on a gold plated Cu-cylinder with 25.4 mm  $\varnothing$
- x = 12.7 s** soldered on a gold plated Cu-cylinder with 12.7 mm  $\varnothing$
- x = 25.4 s** soldered on a gold plated Cu-cylinder with 25.4 mm  $\varnothing$
- x = FC** mounted on a 1 m monomode fiber cable with FC connector

**Low intensity spectral reflectance and dispersion**

