

### SAM™ Data Sheet SAM-1064-2-1ps-x, $\lambda = 1064 \text{ nm}$

|                          |                                                    |
|--------------------------|----------------------------------------------------|
| Laser wavelength         | $\lambda = 1064 \text{ nm}$                        |
| High reflection band     | $\lambda = 1010 \dots 1080 \text{ nm}$             |
| Absorbance               | $A_0 = 2 \%$                                       |
| Modulation depth         | $\Delta R = 1.2 \%$                                |
| Non-saturable loss       | $A_{ns} = 0.8 \%$                                  |
| Saturation fluence       | $\Phi_{sat} = 60 \mu\text{J}/\text{cm}^2$          |
| 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:

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

#### Low intensity spectral reflectance

