

**SAM™ Data Sheet SAM-1064-5-25ps-x,  $\lambda = 1064$  nm**

|                          |  |
|--------------------------|--|
| Laser wavelength         | $\lambda = 1064$ nm                                |
| High reflection band     | $\lambda = 1020 \dots 1100$ nm                     |
| Absorbance               | $A_0 = 5$ %  |
| Modulation depth         | $\Delta R = 3$ %                                   |
| Non-saturable loss       | $A_{ns} = 2$ %                                     |
| Saturation fluence       | $\Phi_{sat} = 60 \mu\text{J}/\text{cm}^2$          |
| Relaxation time constant | $\tau = 25$ ps                                     |
| Damage threshold         | $\Phi = 2 \text{ mJ}/\text{cm}^2$                  |
| 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** = 25.4 s soldered on a gold plated Cu-cylinder with 25.4 mm  $\varnothing$
- x** = 25.0 w soldered on a water cooled Cu-cylinder with 25.0 mm  $\varnothing$
- x** = FC mounted on a 1 m monomode fiber cable with FC connector

**Low intensity spectral reflectance**

