

## SAM™ Data Sheet SAM-1340-2-1ps-x, $\lambda = 1340$ nm

|                          |  |
|--------------------------|--|
| Laser wavelength         | $\lambda = 1340$ nm                                |
| High reflection band     | $\lambda = 1310 \dots 1380$ nm                     |
| Absorbance               | $A_0 = 2$ %  |
| Modulation depth         | $\Delta R = 1.2$ %                                 |
| Non-saturable loss       | $A_{ns} = 0.8$ %                                   |
| Saturation fluence       | $\Phi_{sat} = 70 \mu\text{J}/\text{cm}^2$          |
| Relaxation time constant | $\tau \sim 1$ ps                                   |
| Damage threshold         | $\Phi = 1.5 \text{ mJ}/\text{cm}^2$                |
| 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> = 25.0 w | soldered on a water cooled Cu-cylinder with 25.0 mm $\varnothing$ |
| <b>x</b> = FC     | mounted on a 1 m monomode fiber cable with FC connector           |

### Low intensity spectral reflectance

