

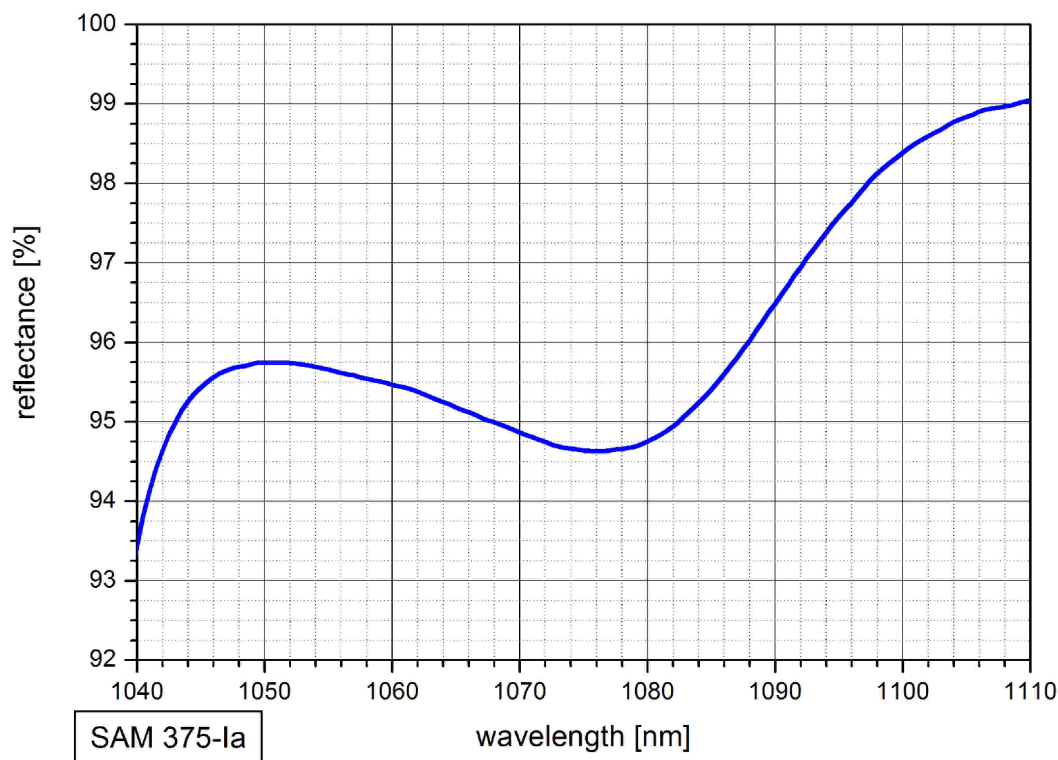
## SAM™ Data Sheet SAM-1064-4-10ps-x, $\lambda = 1064 \text{ nm}$

|                                |  |
|--------------------------------|--|
| Laser wavelength               | $\lambda = 1064 \text{ nm}$                                |
| High reflection band (R > 94%) | $\lambda = 1050 \dots 1110 \text{ nm}$                     |
| Absorbance                     | $A_0 = 4 \%$   |
| Modulation depth               | $\Delta R = 3 \%$  |
| Non-saturable loss             | $A_{ns} = 1 \%$  |
| Saturation fluence             | $\Phi_{sat} = 72 \mu\text{J}/\text{cm}^2$                  |
| Relaxation time constant       | $\tau \sim 10 \text{ ps}$                                  |
| Damage threshold               | $700 \text{ MW}/\text{cm}^2$                               |
| Chip area                      | 4mm x 4mm; other dimensions on request                     |
| Chip thickness                 | 400 $\mu\text{m}$ ; optional: 150 $\mu\text{m}$ on request |
| Protection                     | the SAM is protected with a dielectric front layer         |

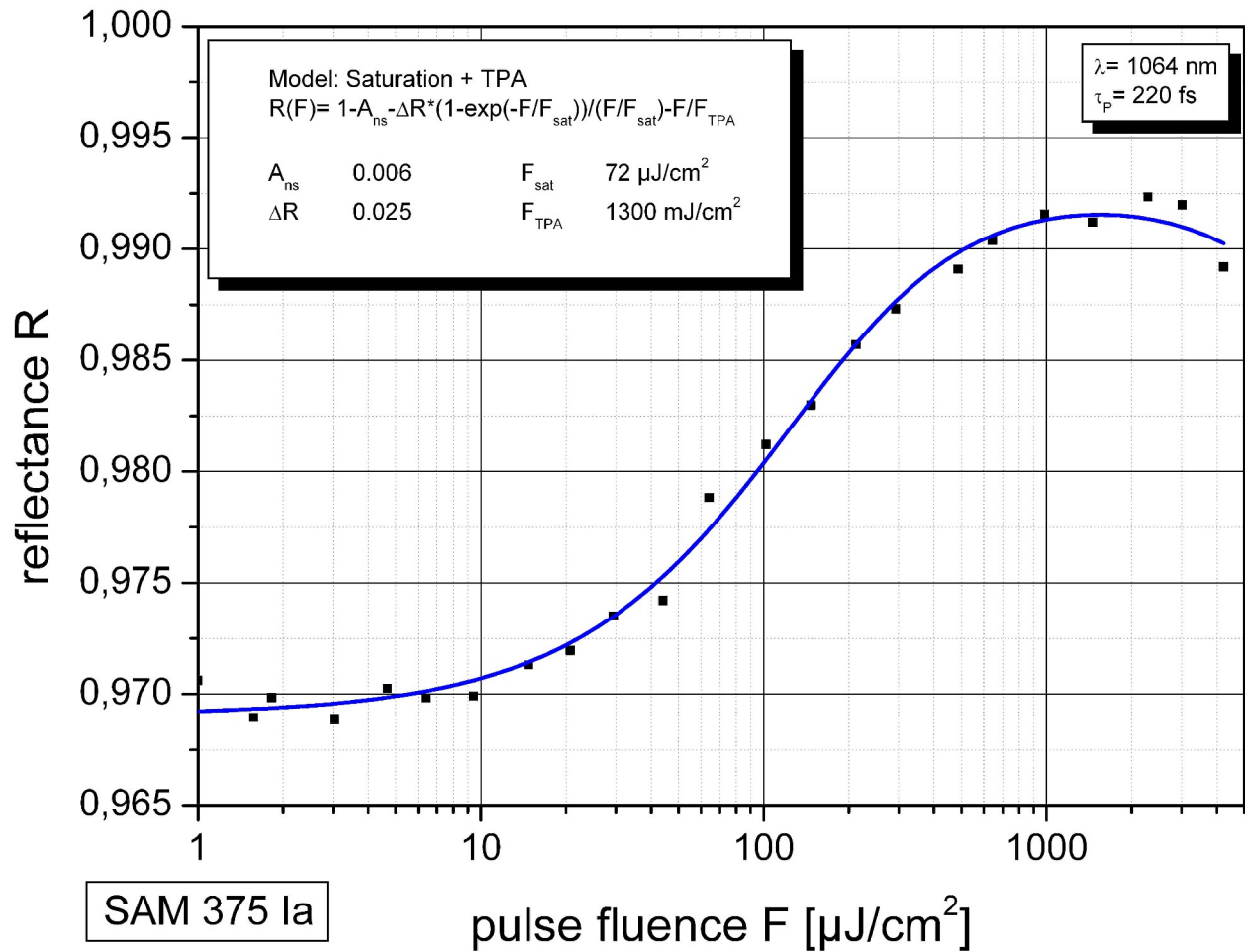
Mounting option **x** denotes the type of mounting as follows:

|                   |   |
|-------------------|---|
| <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 25.4 mm $\varnothing$ |
| <b>x</b> = FC     | mounted on a 1 m monomode fiber cable with FC connector           |

### Low intensity spectral reflectance



### Saturation measurement



### Pump-probe measurement

