

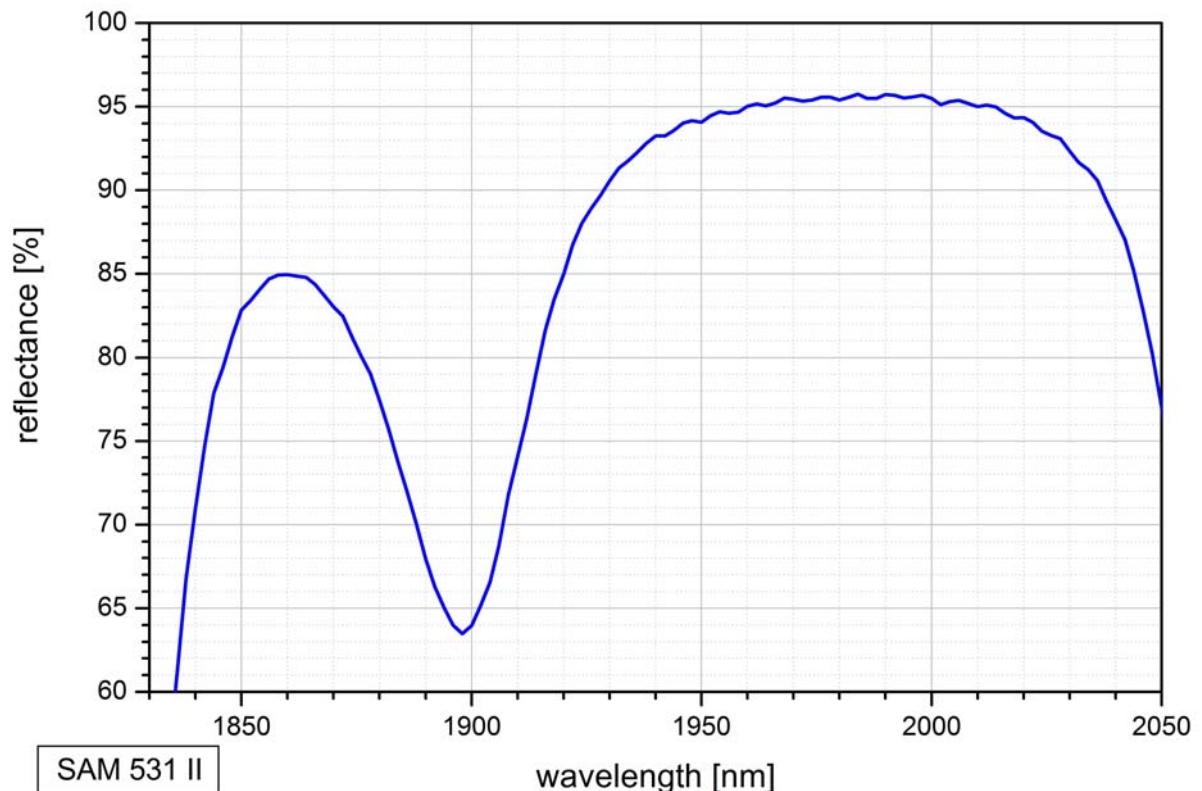
## SAM™ data sheet SAM-1960-5-x-500fs, $\lambda = 1960 \text{ nm}$

|                                |  |
|--------------------------------|--|
| Laser wavelength               | $\lambda = 1960 \text{ nm}$                        |
| High reflection band (R > 90%) | $\lambda = 1950 \dots 2040 \text{ nm}$             |
| Absorbance                     | $A_0 = 5 \%$                                       |
| Modulation depth               | $\Delta R = 3 \%$                                  |
| Non-saturable loss             | $A_{ns} = 2 \%$                                    |
| Saturation fluence             | $\Phi_{sat} = 30 \mu\text{J}/\text{cm}^2$          |
| Relaxation time constant       | $\tau \sim 500 \text{ fs}$                         |
| Damage threshold               | $600 \text{ MW}/\text{cm}^2$                       |
| Chip area                      | 4mm x 4mm; other dimensions on request             |
| Chip thickness                 | 400 $\mu\text{m}$                                  |
| Protection                     | the SAM is protected with a dielectric front layer |

Mounting of SAM-1960-5-x-500fs 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



SAM 531 II

