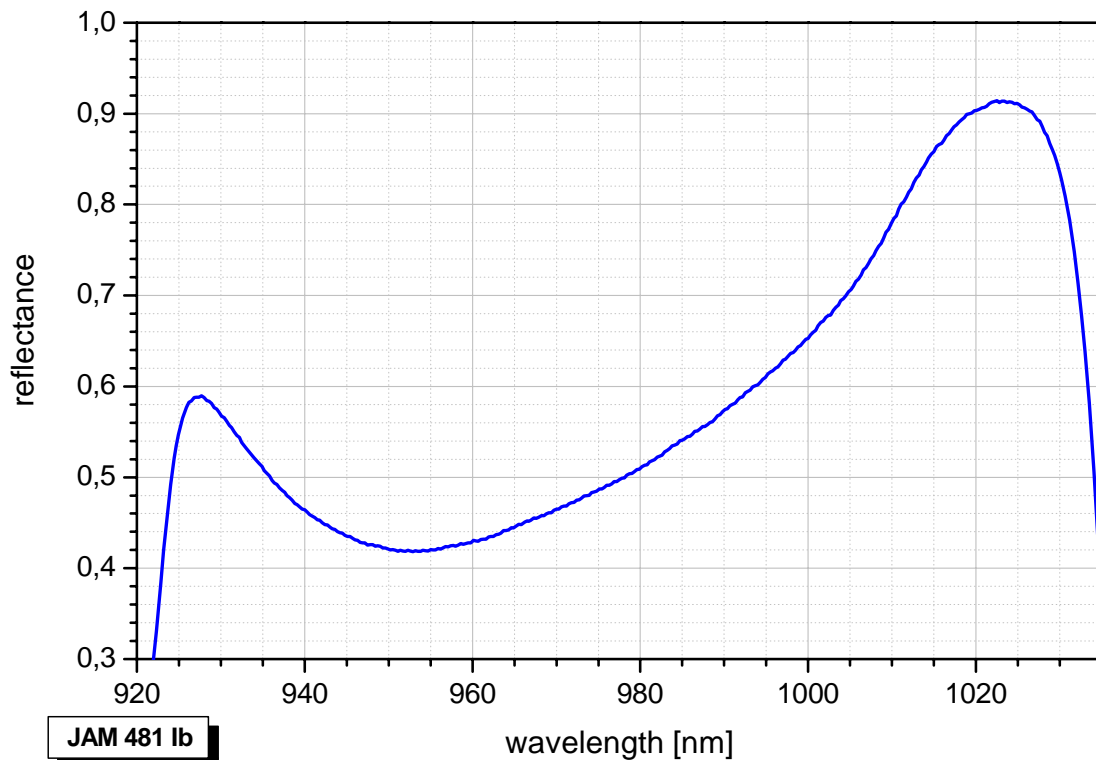


## SAM™ data sheet SAM-980-50-x-500fs, $\lambda = 980 \text{ nm}$

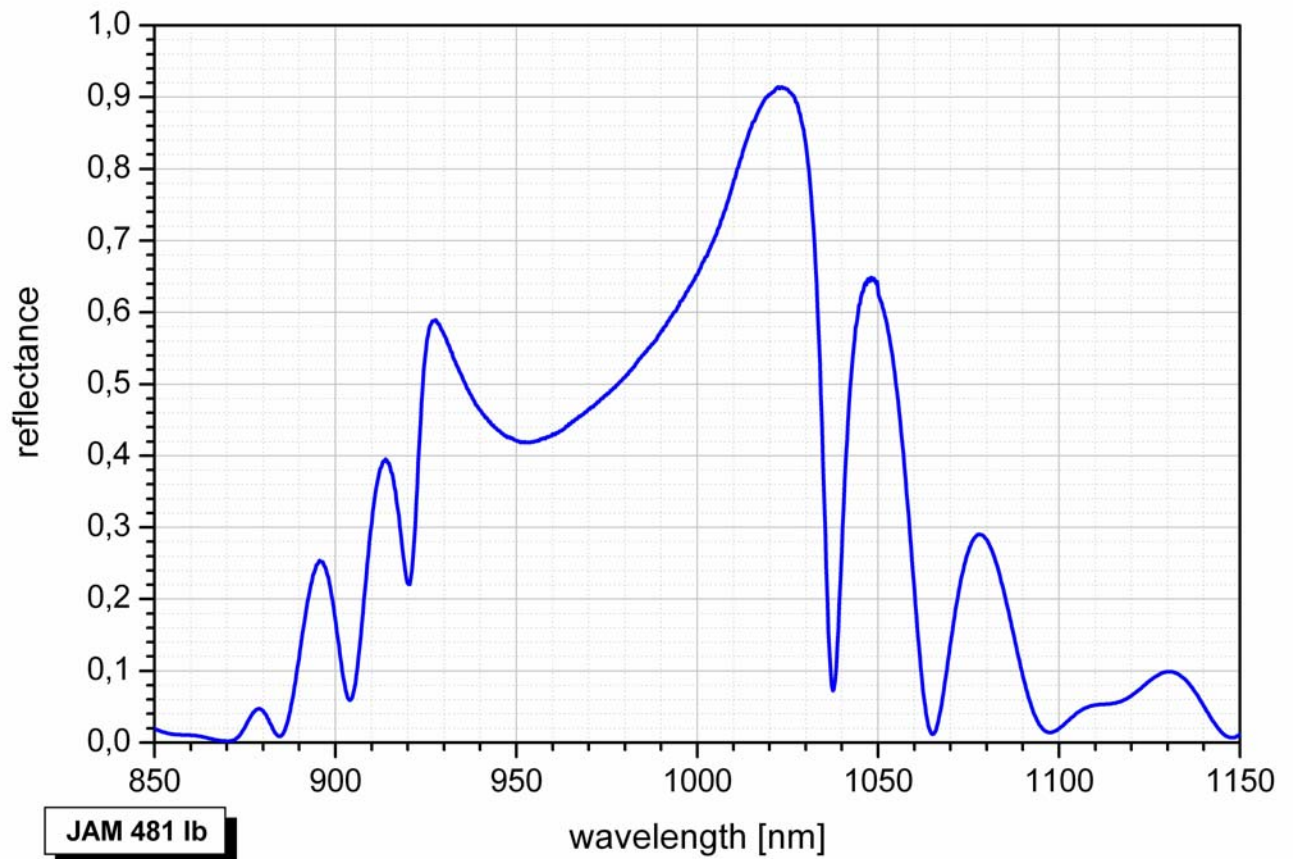
|                                |  |
|--------------------------------|--|
| Laser wavelength               | $\lambda = 980 \text{ nm}$                                       |
| High reflection band (R > 80%) | $\lambda = 930 \text{ .. } 1020 \text{ nm}$                      |
| Absorbance                     | $A_0 = 50 \%$  |
| Modulation depth               | $\Delta R = 30 \%$   |
| Non-saturable loss             | $A_{ns} = 20 \%$   |
| Saturation fluence             | $\Phi_{sat} = 60 \mu\text{J}/\text{cm}^2$                        |
| Relaxation time constant       | $\tau \sim 500 \text{ fs}$                                       |
| Damage threshold               | $300 \text{ MW}/\text{cm}^2$                                     |
| 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 of SAM-980-50-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 = FC                         | mounted on a 1 m monomode fiber cable with FC connector          |

### Low intensity spectral reflectance



JAM 481 lb





**JAM 481 Ib**