

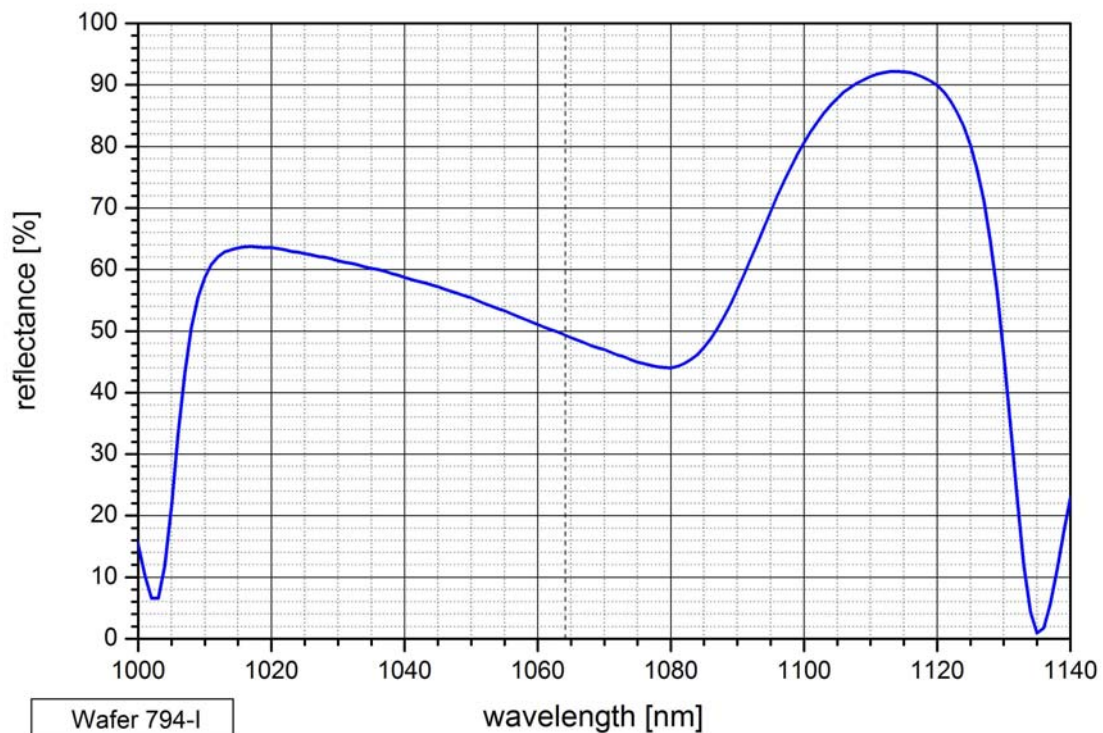
SAM™ Data Sheet SAM-1064-50-20ps-x, $\lambda = 1064 \text{ nm}$

| | |
|--------------------------------|--|
| Laser wavelength | $\lambda = 1064 \text{ nm}$ |
| High reflection band (R > 45%) | $\lambda = 1020 \dots 1120 \text{ nm}$ |
| Absorptance | $A_0 = 50 \%$ |
| Modulation depth | $\Delta R = 40 \%$ |
| Non-saturable loss | $A_{ns} = 10 \%$ |
| Saturation fluence | $\Phi_{sat} = 78 \mu\text{J}/\text{cm}^2$ |
| Relaxation time constant | $\tau \sim 20 \text{ ps}$ |
| Absorber layer | multiple quantum well |
| Damage threshold | $\Phi = 2 \text{ mJ}/\text{cm}^2$ |
| Chip area | 4mm x 4mm; other dimensions on request |
| Chip thickness | 450 μm |
| Protection | the SAM is protected with a dielectric front layer |

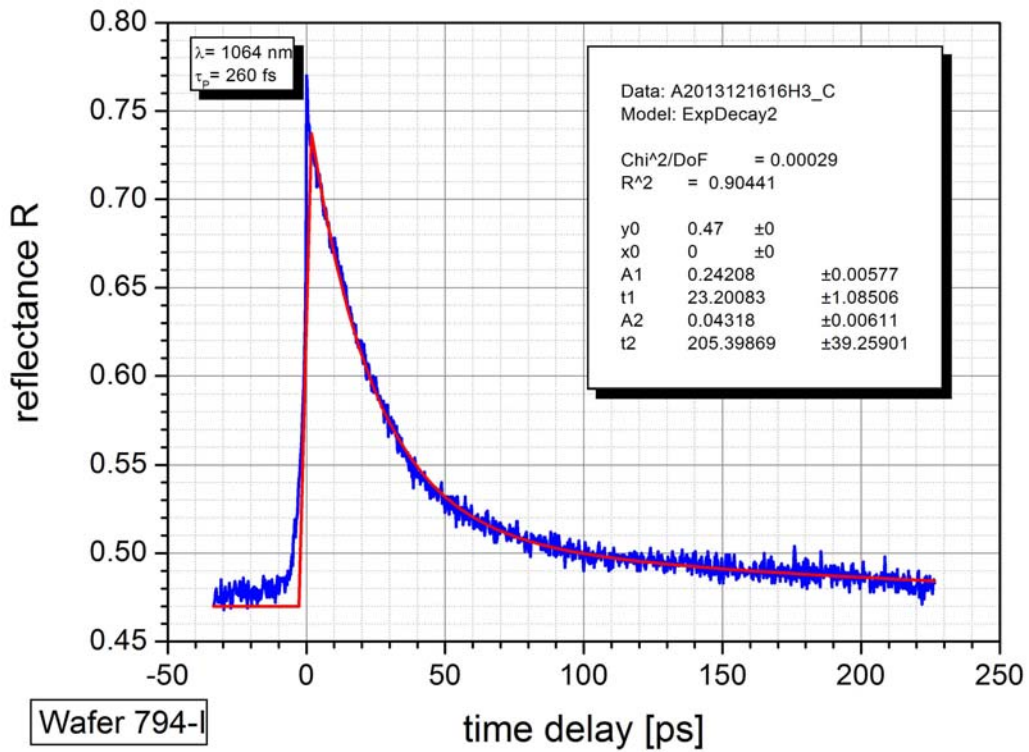
Mounting option **x** denotes the type of mounting as follows:

| | |
|-------------------|--|
| 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 = FC/PC | mounted on a 1 m monomode fiber cable with FC/PC connector |

Low intensity spectral reflectance



Pump-Probe measurement



Saturation measurement

