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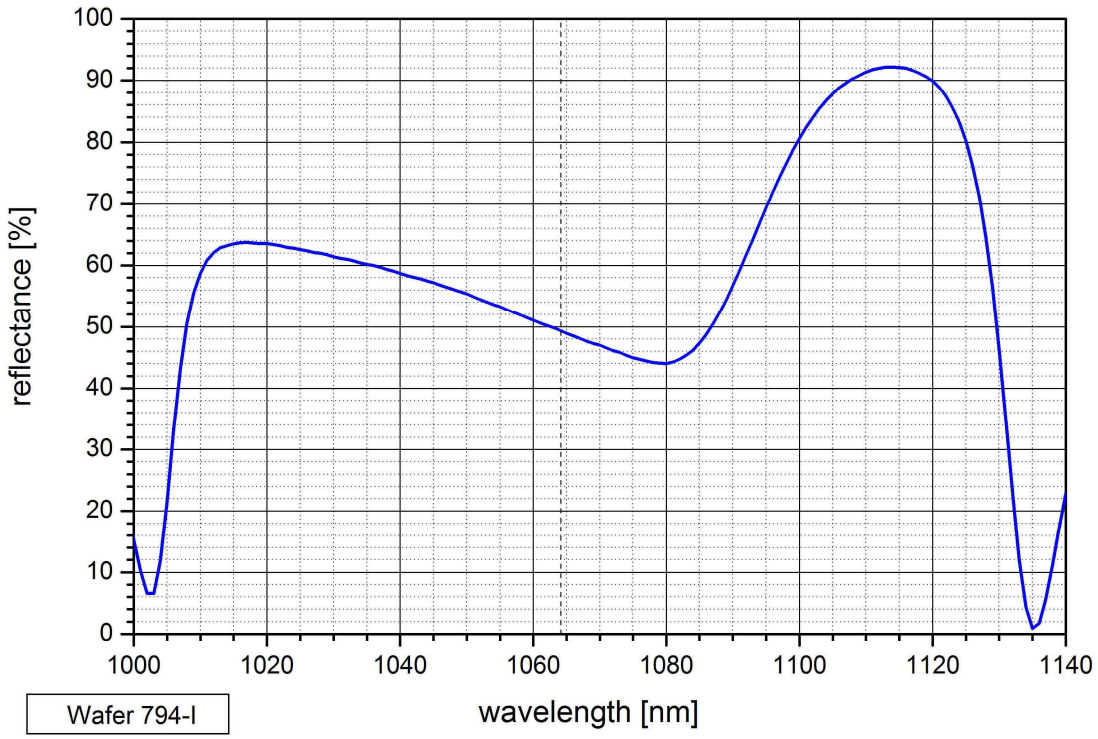
# SAM™ Data Sheet SAM-1064-50-20ps-x, λ = 1064 nm

| | |
|---|---|
| Laser wavelength | λ = 1064 nm |
| High reflection band | λ = 1020 .. 1120 nm |
| Absorptance | $A_0$ = 50 % |
| Modulation depth | ΔR = 40 % |
| Non-saturable loss | $A_{ns}$ = 10 % |
| Saturation fluence | $\Phi_{sat}$ = 78 µJ/cm$^2$ |
| Relaxation time constant | τ ~ 20 ps |
| Absorber layer | multiple quantum well |
| Damage threshold | Φ = 2 mJ/cm$^2$ |
| Chip area | 4.0 mm x 4.0 mm; other dimensions on request |
| Chip thickness | 450 µm |
| Protection | the SAM is protected with a dielectric front layer |

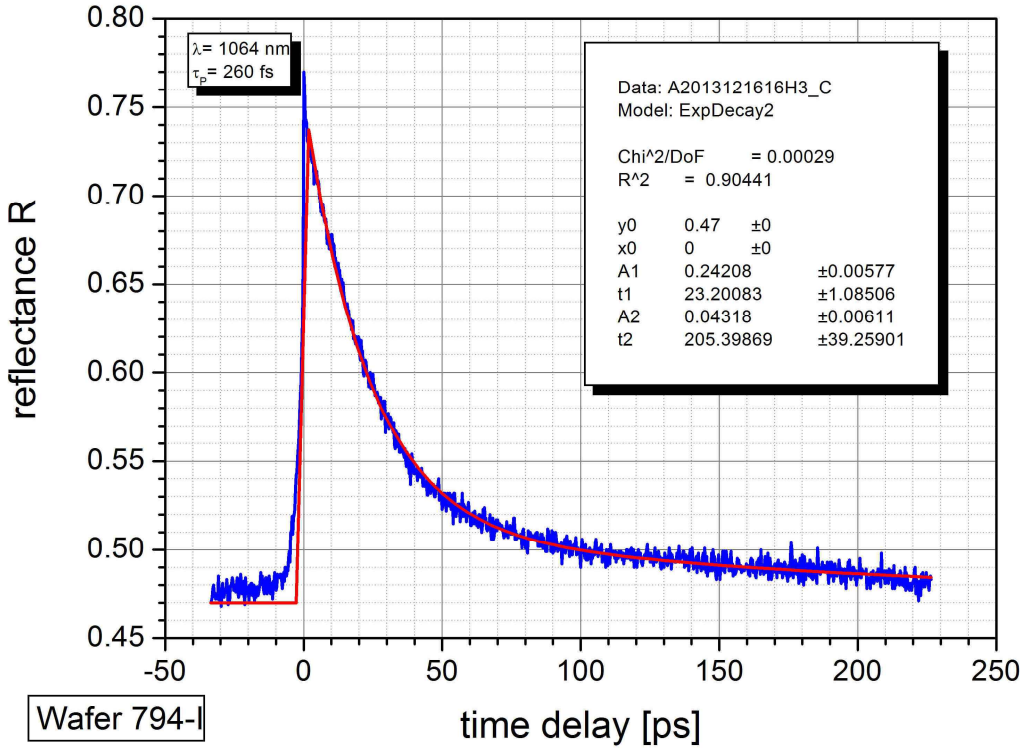
Mounting option **x** denotes the type of mounting as follows:

| | |
|---|---|
| **x** = 0 | unmounted |
| **x** = 12.7 g | glued on a gold plated Cu-cylinder with 12.7 mm ∅ |
| **x** = 25.4 g | glued on a gold plated Cu-cylinder with 25.4 mm ∅ |
| **x** = 12.7 s | soldered on a gold plated Cu-cylinder with 12.7 mm ∅ |
| **x** = 25.4 s | soldered on a gold plated Cu-cylinder with 25.4 mm ∅ |
| **x** = FC/PC | mounted on a 1 m monomode fiber cable with FC/PC connector |

**Low intensity spectral reflectance**



## Pump-Probe measurement




## Saturation measurement