

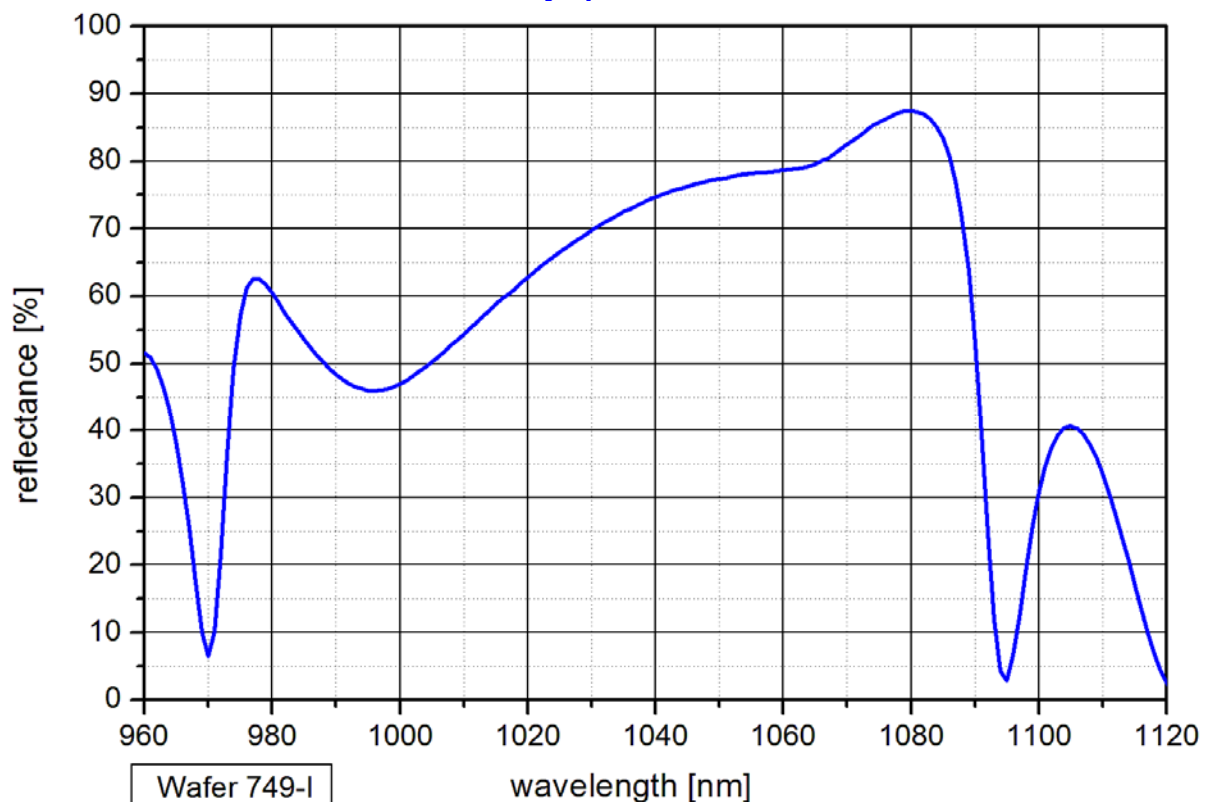
### SAM™ data sheet SAM-1040-27-1ps-x, $\lambda = 1040 \text{ nm}$

Laser wavelength	$\lambda = 1040 \text{ nm}$
Absorbance	$A_0 = 27 \%$
Modulation depth	$\Delta R = 11 \%$
Non-saturable loss	$A_{\text{ns}} = 16 \%$
Saturation fluence	$\Phi_{\text{sat}} = 30 \mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 1 \text{ ps}$
Damage threshold	$\Phi = 3 \text{ mJ}/\text{cm}^2$
Chip area	4mm x 4mm; other dimensions on request
Chip thickness	450 $\mu\text{m}$

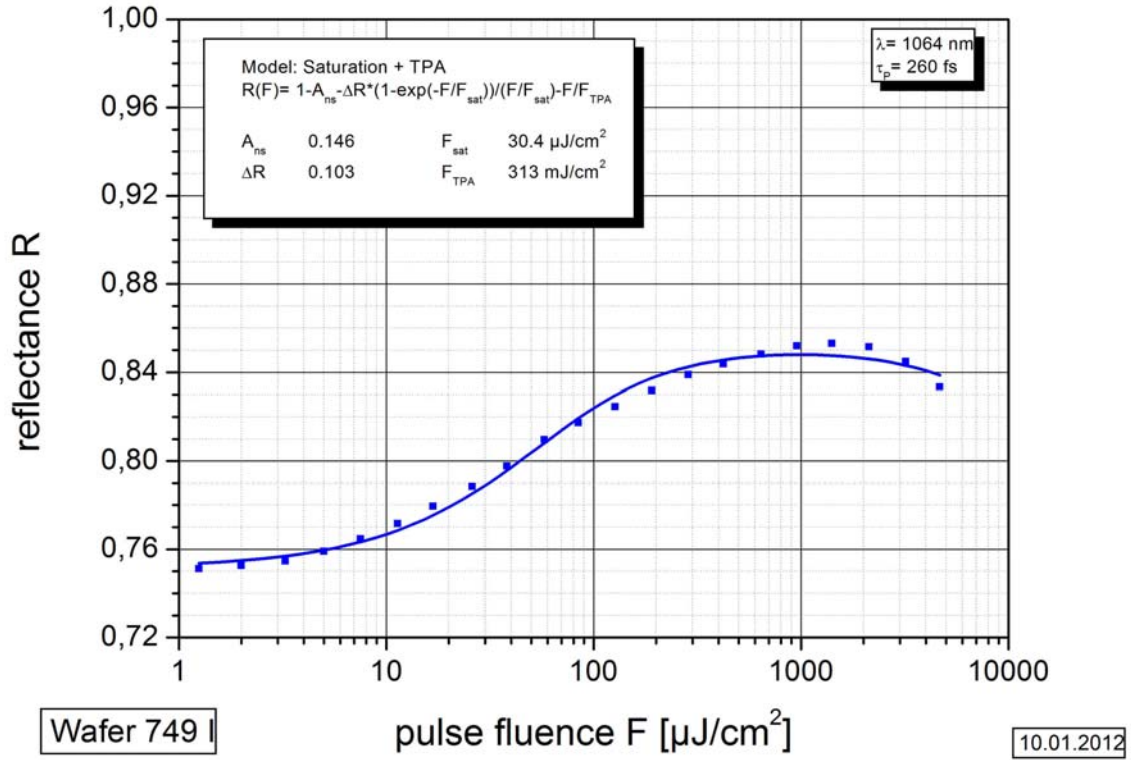
Mounting option **x** denotes the type of mounting as follows:

<b>x</b> = 0	unmounted
<b>x</b> = 12.7 g	glued on a copper heat sink with 12.7 mm $\varnothing$
<b>x</b> = 25.4 g	glued on a copper heat sink with 25.4 mm $\varnothing$
<b>x</b> = 12.7 s	soldered on a copper heat sink with 12.7 mm $\varnothing$
<b>x</b> = 25.4 s	soldered on a copper heat sink with 25.4 mm $\varnothing$
<b>x</b> = 25.4 w	soldered on a water cooled copper heat sink with 25.4 mm $\varnothing$
<b>x</b> = FC	mounted on a 1 m single mode fiber cable with FC connector

#### Low intensity spectral reflectance



Saturation measurement without dielectric coating



Pump-probe measurement

