

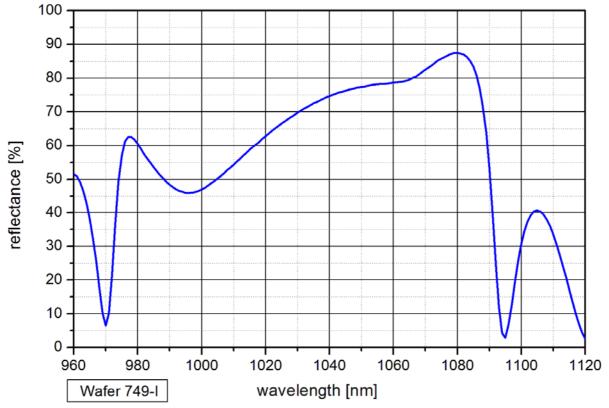
## SAM<sup>TM</sup> data sheet SAM-1040-27-1ps-x, $\lambda$ = 1040 nm

Laser wavelength	$\lambda = 1040 \text{ nm}$
Absorbance	A <sub>0</sub> = 27 %
Modulation depth	∆R = 11 %
Non-saturable loss	A <sub>ns</sub> = 16 %
Saturation fluence	$\Phi_{sat}$ = 30 µJ/cm <sup>2</sup>
Relaxation time constant	τ ~ 1 ps
Damage threshold	$\Phi = 3 \text{ mJ/cm}^2$
Chip area	4mm x 4mm; other dimensions on request
Chip thickness	450 μm

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

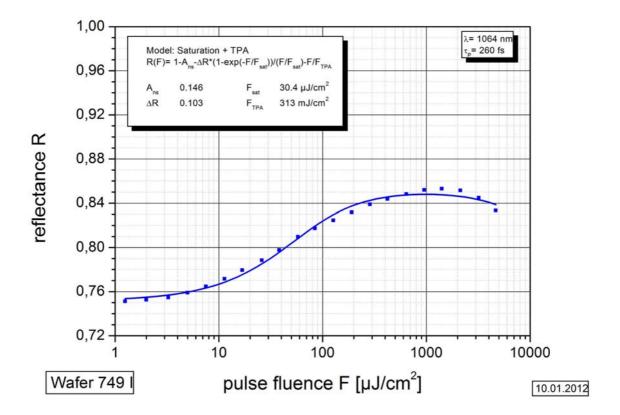
<b>x</b> = 0	unmounted
<b>x</b> = 12.7 g	glued on a copper heat sink with 12.7 mm $arnothing$
<b>x</b> = 25.4 g	glued on a copper heat sink with 25.4 mm $arnothing$
<b>x</b> = 12.7 s	soldered on a copper heat sink with 12.7 mm $arnothing$
<b>x</b> = 25.4 s	soldered on a copper heat sink with 25.4 mm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

## Low intensity spectral reflectance









**Pump-probe measurement** 

