

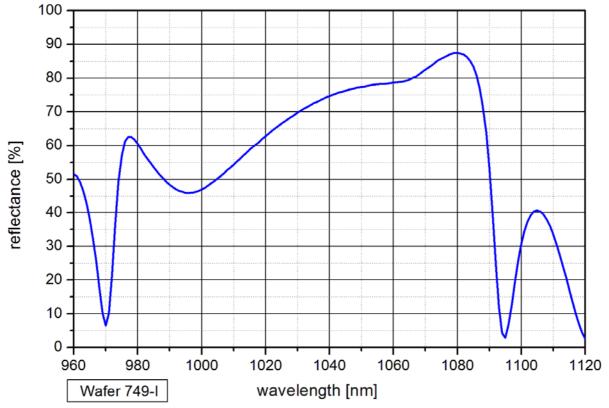
SAMTM data sheet SAM-1040-27-1ps-x, λ = 1040 nm

Laser wavelength	$\lambda = 1040 \text{ nm}$
Absorbance	A ₀ = 27 %
Modulation depth	∆R = 11 %
Non-saturable loss	A _{ns} = 16 %
Saturation fluence	Φ_{sat} = 30 µJ/cm ²
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:

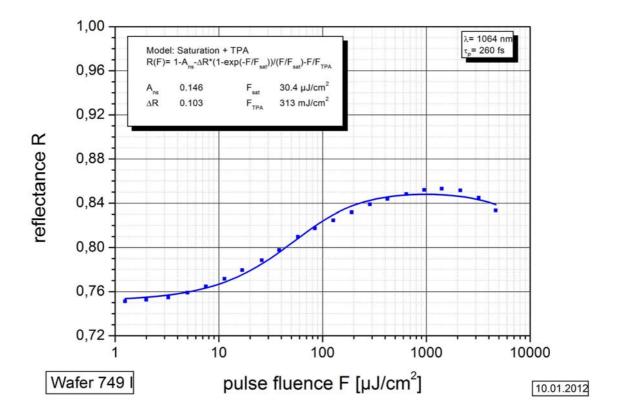
x = 0	unmounted
x = 12.7 g	glued on a copper heat sink with 12.7 mm $arnothing$
x = 25.4 g	glued on a copper heat sink with 25.4 mm $arnothing$
x = 12.7 s	soldered on a copper heat sink with 12.7 mm $arnothing$
x = 25.4 s	soldered on a copper heat sink with 25.4 mm $arnothing$
x = 25.4 w	soldered on 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

