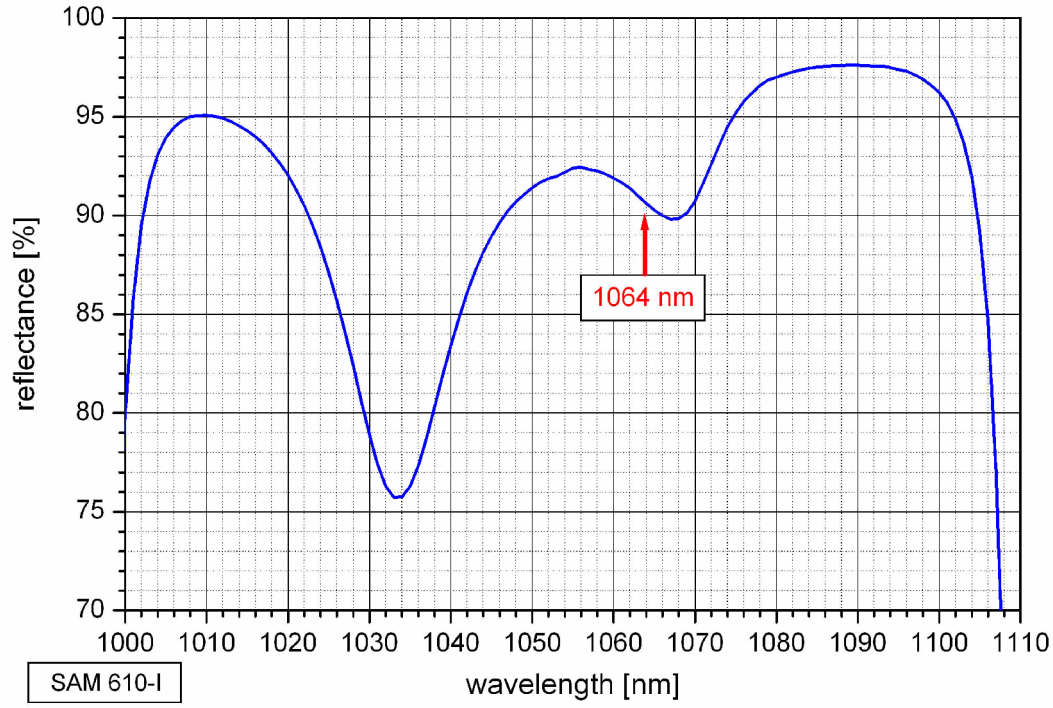
SAM™ Data Sheet SAM-1064-10-47ps-x, λ = 1064 nm
for microchip laser Q-switching

Laser wavelength	λ = 1064 nm
High reflection band (R > 75%)	λ = 1010 .. 1100 nm
Reflectance at 808 nm	R_{808} = 96 %
Absorbance	A_0 =10 %
Modulation depth	ΔR = 6 %
Non-saturable loss	A_{ns} = 4 %
Saturation fluence	Φ_{sat} = 50 µJ/cm²
Relaxation time constant	τ ~ 47 ps
Damage threshold	500 MW/cm²
Chip area	4mm x 4mm; other dimensions on request
Chip thickness	450 µm
Dielectric coating	HR @ 808 nm and AR @ 1064 nm

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 ∅
x = 25.4 g	glued on a copper heat sink with 25.4 mm ∅
x = 12.7 s	soldered on a copper heat sink with 12.7 mm ∅
x = 25.4 s	soldered on a copper heat sink with 25.4 mm ∅
x = 25.4 w	soldered on a water cooled copper heat sink with 25.4 mm ∅
x = FC	mounted on a 1 m monomode fiber cable with FC connector

Low intensity spectral reflectance



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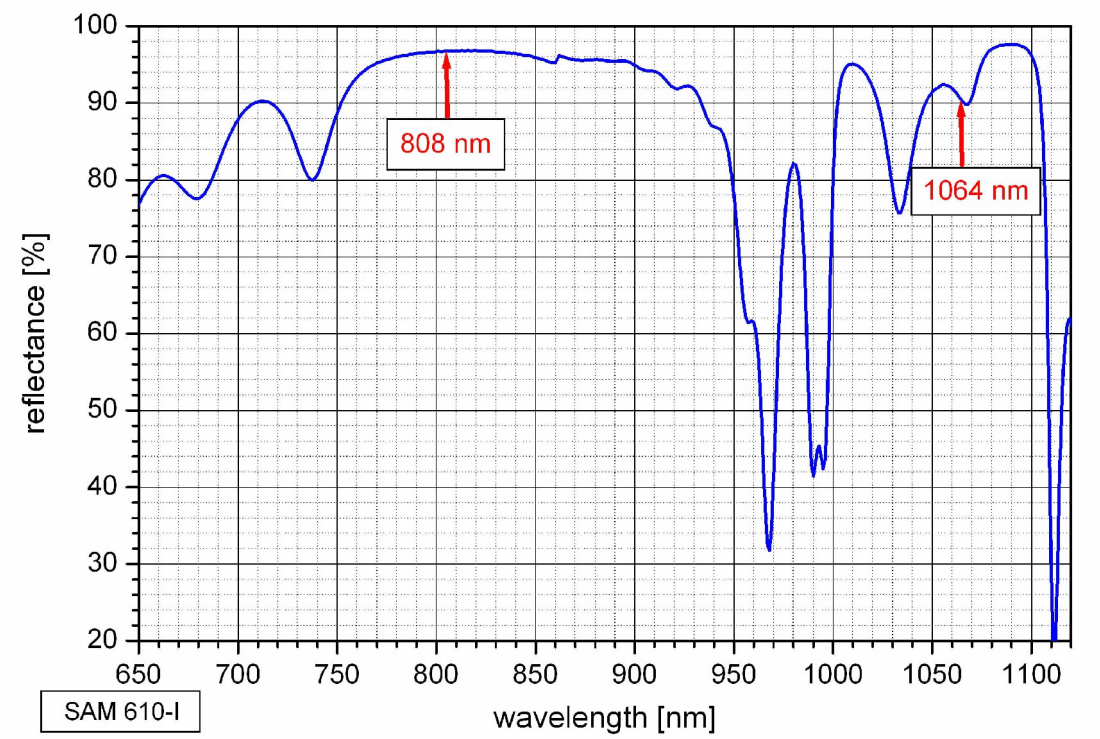
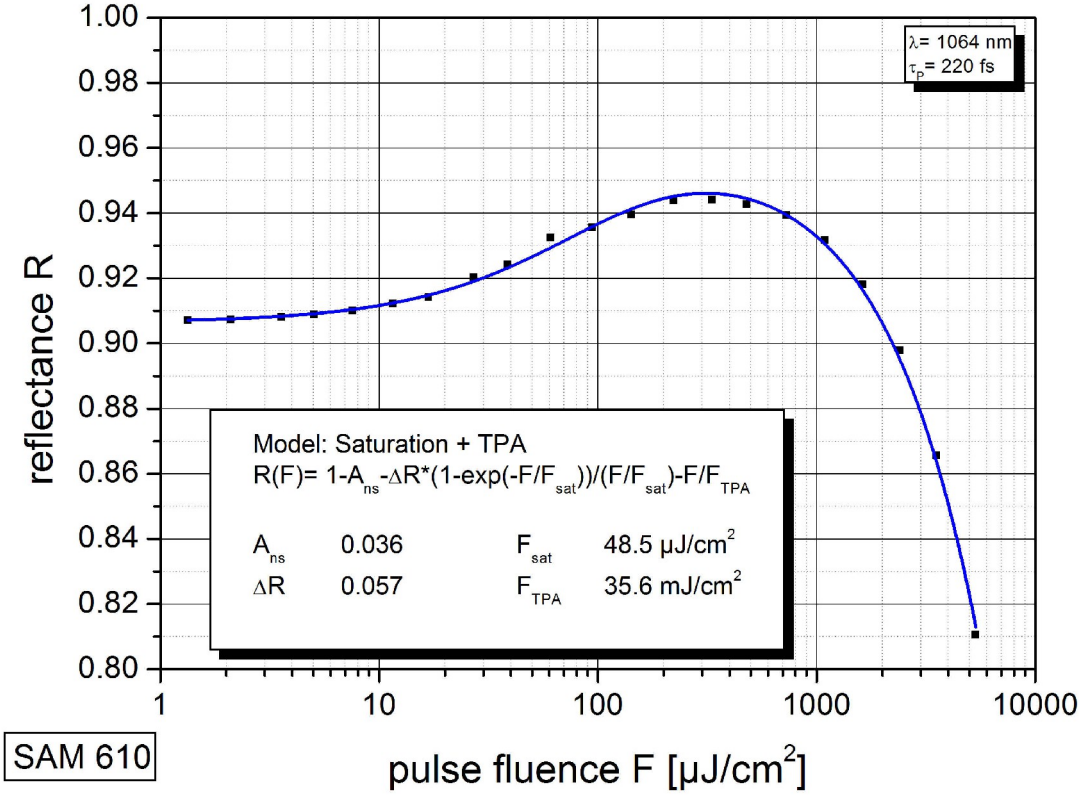


Saturation measurement



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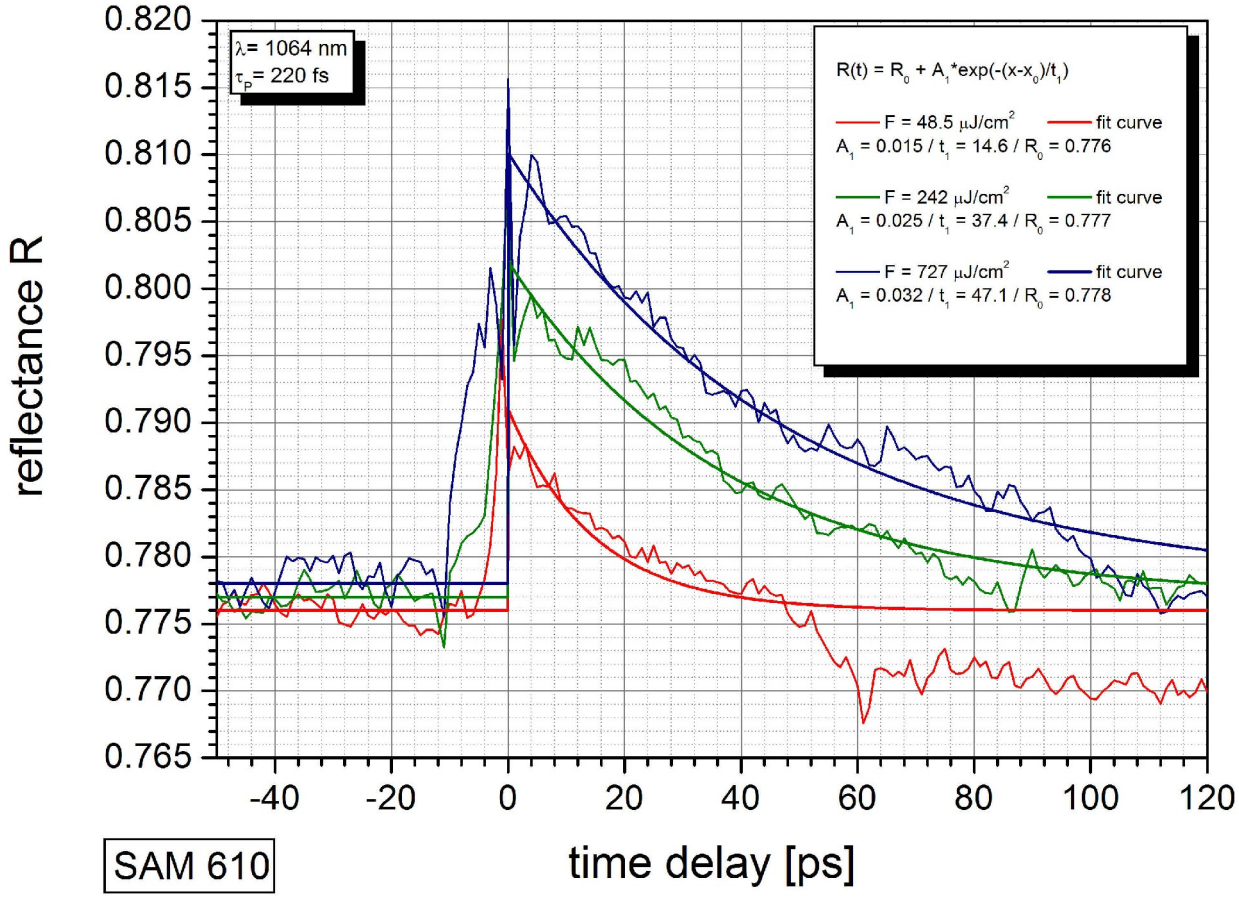
Pump-probe measurement



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