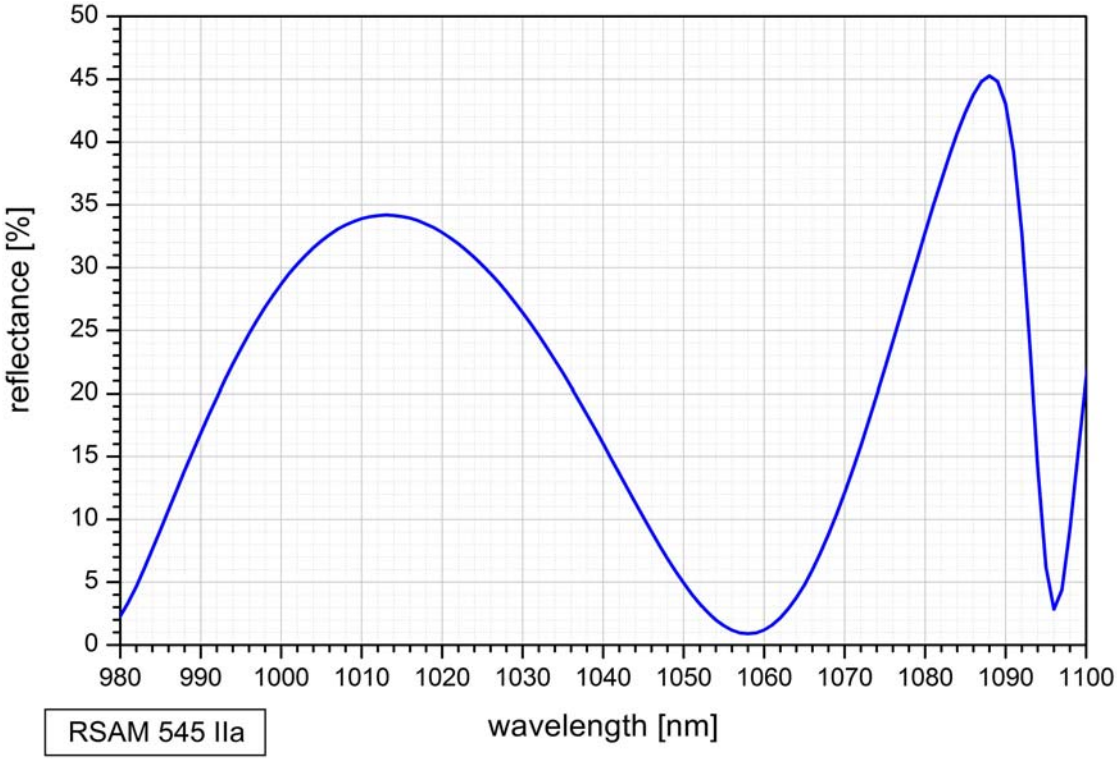
RSAM data sheet RSAM-1060-x, λ = 1060 nm

RSAM - Resonant saturable absorber mirror

Working wavelength	λ = 1050…1064 nm (angle and temperature dependent)
Full Width at Half Maximum	FWHM = 40 nm
Low intensity absorptance	A ≥ 99 %
Low intensity reflectance	$R_{min} \leq 1$ %
Saturation fluence	Φ_{sat} = 121 µJ/cm^2
Relaxation time constant	τ ~ 3 ps
Non-saturable loss	A_{ns} = 45 %
Chip area	4mm x 4mm; other dimensions on request
Chip thickness	400 µm
Front side	dielectric cover
Mounting of RSAM-1060-**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 = 25.0 w	soldered on a water cooled Cu-cylinder with 25.0 mm ∅
x = FC	mounted on a 1 m monomode fiber cable with FC/PC connector
x = FC/PC with TEC	mounted on a 1 m monomode fiber cable with FC/PC or other connector type and TEC (thermoelectric cooler) for fine tuning of the resonance wavelength

Unsaturated spectral reflectance



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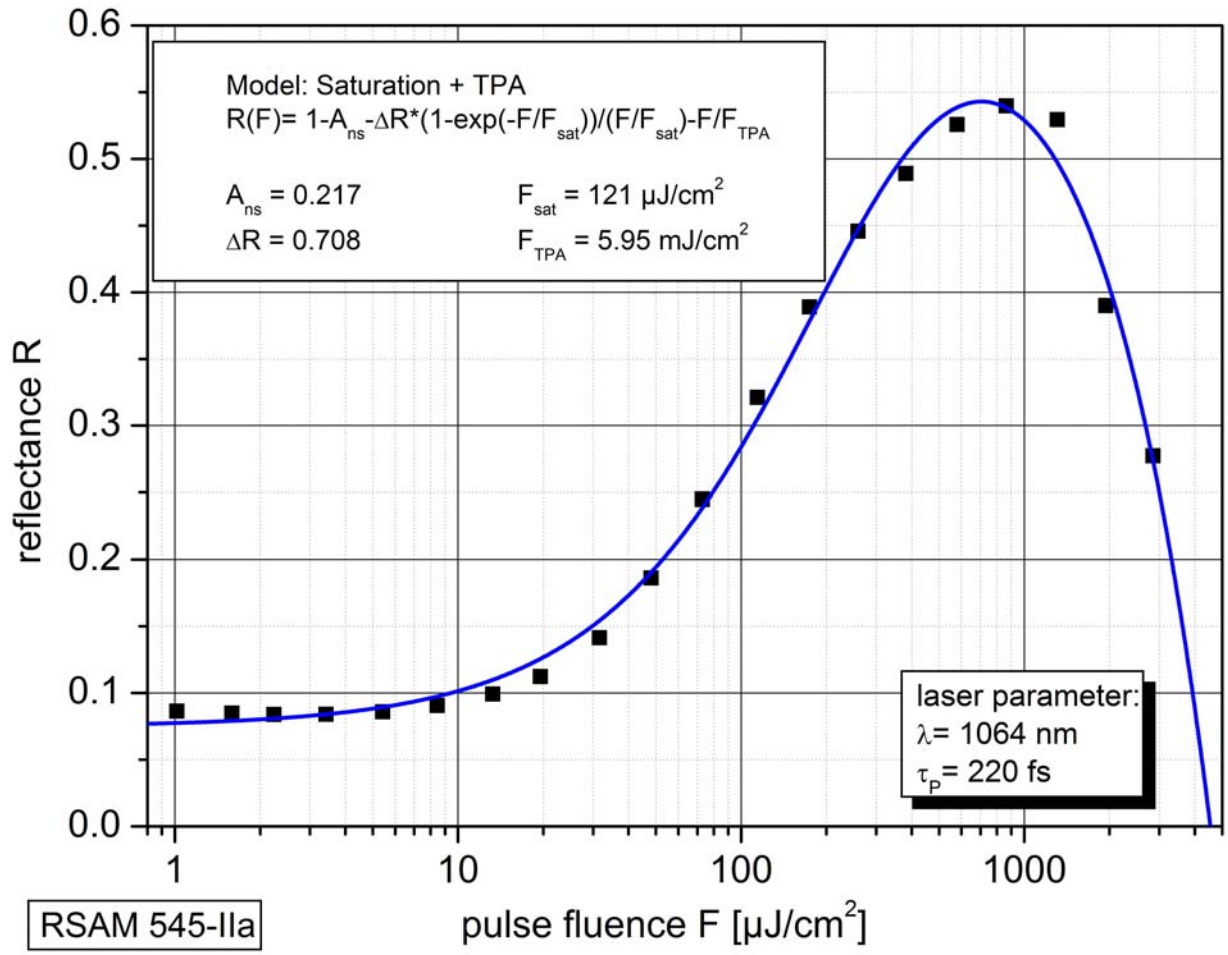
Saturation measurement at 1064 nm



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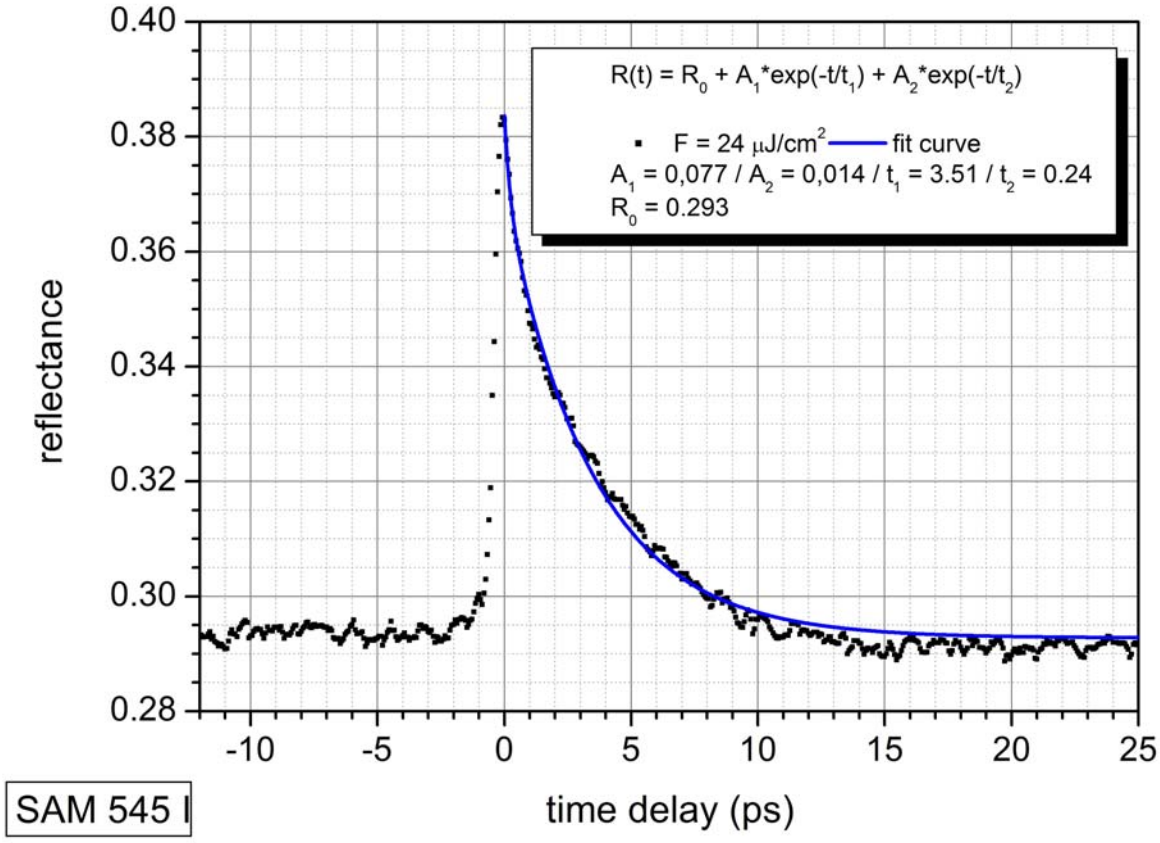
Pump-probe measurement at 1064 nm on a sample from the same wafer, but with another dielectric coating



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