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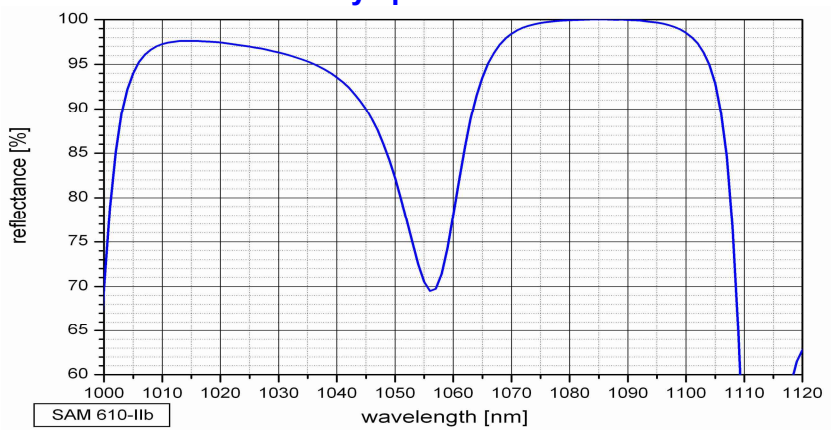
SAM™ Data Sheet SAM-1064-9-47ps-x, λ = 1064 nm

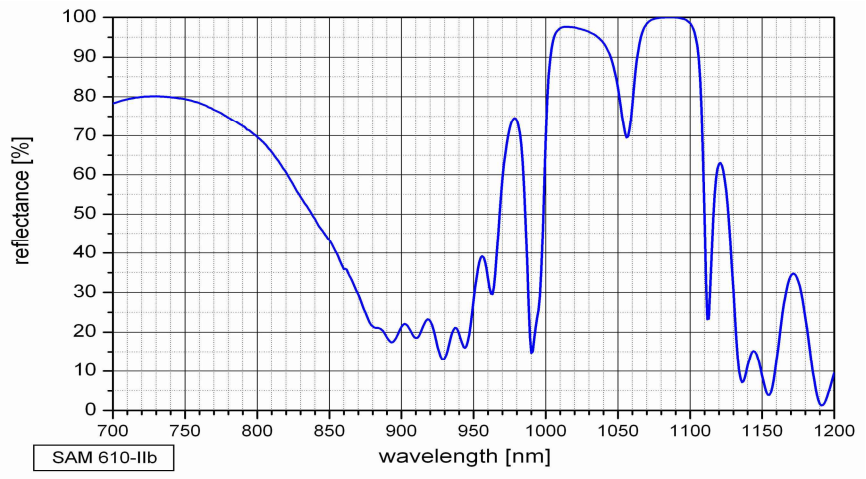
Laser wavelength	λ = 1064 nm
High reflection band	λ = 1010 .. 1110 nm
Reflectance at 808 nm	R_{808} = 67 %
Absorbance	A_0 = 9 %
Modulation depth	ΔR = 5.7 %
Non-saturable loss	A_{ns} = 3.3 %
Saturation fluence	Φ_{sat} = 49 µJ/cm^2
Relaxation time constant	τ ~ 47 ps
Damage threshold	Φ = 2.5 mJ/cm^2
Chip area	4.0 mm x 4.0 mm; 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:

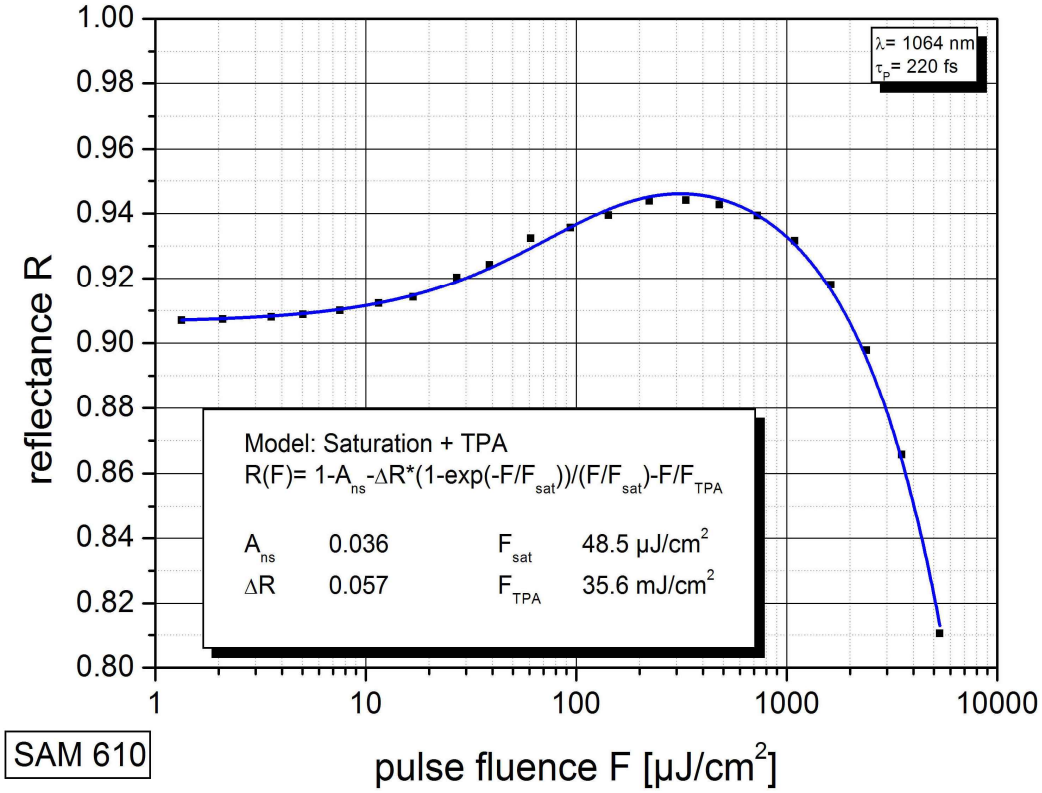
x = 0	unmounted
x = 12.7 g	glued on a copper heat sink with 12.7 mm ∅
x = 25.4 g	glued on a copper heat sink with 25.4 mm ∅
x = 12.7 s	soldered on a copper heat sink with 12.7 mm ∅
x = 25.4 s	soldered on a copper heat sink with 25.4 mm ∅
x = 25.4 w	soldered on a water cooled copper heat sink with 25.4 mm ∅
x = FC	mounted on a 1 m monomode fiber cable with FC connector

Low intensity spectral reflectance





Saturation measurement



Pump-probe measurement