

SAMTM Data Sheet SAM-1064-50-5ps-x, λ = 1064 nm

Laser wavelength $\lambda = 1064 \text{ nm}$

High reflection band $\lambda = 990 ... 1064 \text{ nm}$

Absorptance $A_0 = 50 \%$ Modulation depth $\Delta R = 25 \%$ Non-saturable loss $A_{ns} = 25 \%$

Saturation fluence $\Phi_{sat} = 21 \,\mu\text{J/cm}^2$

Relaxation time constant $\tau \sim 5 \text{ ps}$

Damage threshold $\Phi = 800 \,\mu\text{J/cm}^2$

Chip area 4.0 mm x 4.0 mm; other dimensions on request

Chip thickness 450 µm

x = FC

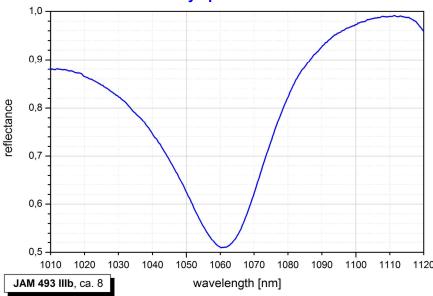
Protection the SAM is protected with a dielectric front layer

Mounting option \mathbf{x} denotes the type of mounting as follows:

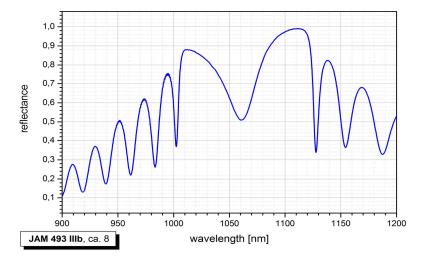
x = 0unmounted $x = 12.7 \, \mathrm{g}$ glued on a gold plated Cu-cylinder with 12.7 mm \varnothing $x = 25.4 \, \mathrm{g}$ glued on a gold plated Cu-cylinder with 25.4 mm \varnothing $x = 12.7 \, \mathrm{s}$ soldered on a gold plated Cu-cylinder with 12.7 mm \varnothing $x = 25.4 \, \mathrm{s}$ soldered on a gold plated Cu-cylinder with 25.4 mm \varnothing $x = 25.0 \, \mathrm{w}$ soldered on a water cooled Cu-cylinder with 25.4 mm \varnothing

mounted on a 1 m monomode fiber cable with FC connector

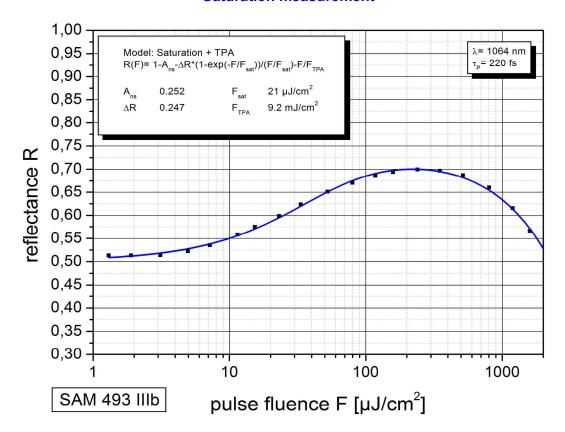
Low intensity spectral reflectance







Saturation measurement



Pump-probe measurement



