

SAMTM Data Sheet SAM-1040-35-9ps-x, λ = 1040 nm

Laser wavelength $\lambda = 1040 \text{ nm}$

High reflection band $\lambda = 1000 ... 1100 \text{ nm}$

Absorbance $A_0 = 35 \%$ Modulation depth $\Delta R = 18 \%$ Non-saturable loss $A_{ns} = 17 \%$

Saturation fluence $\Phi_{sat} = 20 \mu J/cm^2$

Relaxation time constant $\tau \sim 9 \text{ ps}$

Damage threshold $\Phi = 1.5 \text{ mJ/cm}^2$

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

Chip thickness 450 µm

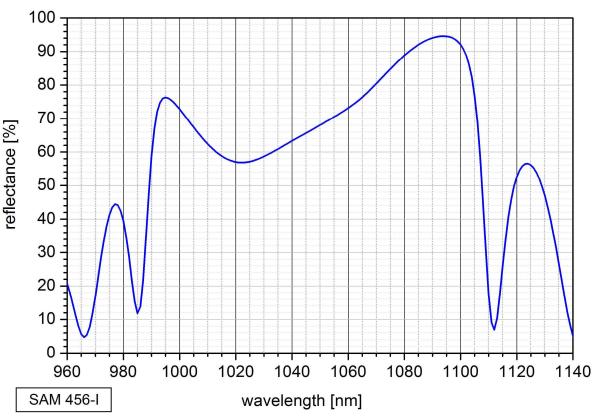
Protection the SAM is protected with a dielectric front layer

Mounting option **x** denotes the type of mounting as follows:

x = 0unmounted $x = 12.7 \, g$ glued on a gold plated Cu-cylinder with 12.7 mm \varnothing $x = 25.4 \, g$ glued on a gold plated Cu-cylinder with 25.4 mm \varnothing $x = 12.7 \, s$ soldered on a gold plated Cu-cylinder with 12.7 mm \varnothing

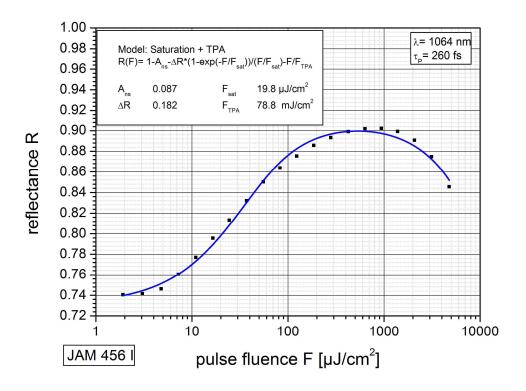
x = 25.4 ssoldered on a gold plated Cu-cylinder with 25.4 mm \emptyset x = 25.0 wsoldered on a water cooled Cu-cylinder with 25.0 mm \emptyset x = FCmounted on a 1 m monomode fiber cable with FC connector

Low intensity spectral reflectance





Saturation measurement



Pump-probe measurement

