

SAMTM Data Sheet SAM-1040-2.5-1ps-x, λ = 1040 nm

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

High reflection band (R > 95%) λ = 1020 .. 1110 nm

Absorbance $A_0 = 2.5 \ \%$ Modulation depth $\Delta R = 1.4 \ \%$ Non-saturable loss $A_{ns} = 1.1 \ \%$ Saturation fluence $\Phi_{sat} = 50 \ \mu \text{J/cm}^2$

Relaxation time constant $\tau \sim 1 \text{ ps}$

Damage threshold $\Phi = 4 \text{ mJ/cm}^2$

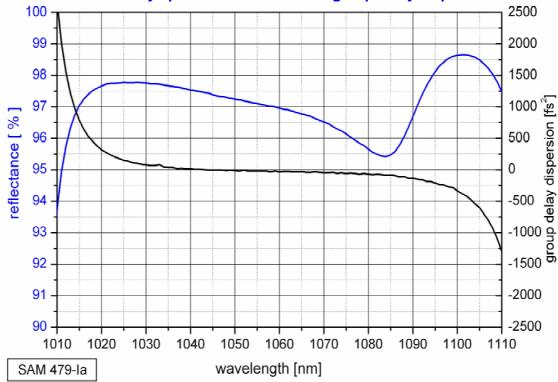
Chip area 4mm x 4mm; other dimensions on request

Chip thickness 450 µm

Protection the SAM is protected with a dielectric front layer

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

Low intensity spectral reflectance and group delay dispersion





Group Delay Dispersion (GDD)

Dispersion coefficient
$$D_2(\omega)=\frac{\partial^2\varphi}{\partial\omega^2}$$
 with φ - reflected phase
$$\omega=2\pi\frac{c}{\lambda}$$
 - angular frequency