

SAMTM data sheet SAM-810-7-1ps-x, λ = 810 nm

Laser wavelength $\lambda = 810 \text{ nm}$

High reflection band $\lambda = 790 ... 840 \text{ nm}$

Absorbance $A_0 = 7 \%$ Modulation depth $\Delta R = 4\%$ Non-saturable loss $A_{ns} = 3 \%$

Saturation fluence $\Phi_{\text{sat}} = 110 \,\mu\text{J/cm}^2$

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

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

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 = 0 unmounted

 $x = 12.7 \, \mathrm{g}$ 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 25.0 mm \varnothing x = FCmounted on a 1 m monomode fiber cable with FC connector

Low intensity spectral reflectance





