

SAMTM Data Sheet SAM-1040-40-25ps-x, λ = 1040 nm

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

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

Absorbance $A_0 = 40 \%$ Modulation depth $\Delta R = 30 \%$ Non-saturable loss $A_{ns} = 10 \%$

Saturation fluence $\Phi_{\text{sat}} = 16 \,\mu\text{J/cm}^2$

Relaxation time constant $\tau \sim 25 \text{ ps}$

Damage threshold $\Phi = 1 \text{ mJ/cm}^2$

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

x = 0 unmounted

 $x = 12.7 \, \mathrm{g}$ glued on a copper heat sink with 12.7 mm \varnothing $x = 25.4 \, \mathrm{g}$ glued on a copper heat sink with 25.4 mm \varnothing $x = 12.7 \, \mathrm{s}$ soldered on a copper heat sink with 12.7 mm \varnothing $x = 25.4 \, \mathrm{s}$ soldered on a copper heat sink with 25.4 mm \varnothing

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

