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## SAM™ Data Sheet SAM-1040-2.5-10ps-x, λ = 1040 nm

Laser wavelength	$\lambda = 1040 \text{ nm}$
High reflection band	λ = 1020 1080 nm
Absorbance	A <sub>0</sub> = 2.5 %
Modulation depth	∆R = 1.5 %
Non-saturable loss	A <sub>ns</sub> = 1 %
Saturation fluence	$\Phi_{sat}$ = 70 µJ/cm <sup>2</sup>
Relaxation time constant	τ ~ 10 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 $\mathbf{x}$ denotes the type of mounting as follows: $\mathbf{x} = 0$ unmounted	
<b>x</b> = 12.7 g	glued on a gold plated Cu-cylinder with 12.7 mm $arnothing$

x = 12.7 gglued on a gold plated Cu-cylinder with 12.7 mm  $\oslash$ x = 25.4 gglued on a gold plated Cu-cylinder with 25.4 mm  $\oslash$ x = 12.7 ssoldered on a gold plated Cu-cylinder with 12.7 mm  $\oslash$ x = 25.4 ssoldered on a gold plated Cu-cylinder with 25.4 mm  $\oslash$ x = 25.4 wsoldered on a water cooled Cu-cylinder with 25.4 mm  $\oslash$ x = FCmounted on a 1 m monomode fiber cable with FC connector

## Low intensity spectral reflectance

