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## SAM™ Data Sheet SAM-1040-52-2ps-x

Laser wavelength	λ = 1040 nm
High reflection band	λ = 960 1070 nm
Absorbance	A <sub>0</sub> = 52 %
Modulation depth	∆R = 31 %
Non-saturable loss	A <sub>ns</sub> = 21 %
Saturation fluence	$\Phi_{sat}$ = 80 µJ/cm <sup>2</sup>
Relaxation time constant	τ ~ 2 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 <b>x</b> 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 $arnothing$
<b>x</b> = 25.4 g	glued on a gold plated Cu-cylinder with 25.4 mm $arnothing$
<b>x</b> = 12.7 s	soldered on a gold plated Cu-cylinder with 12.7 mm $arnothing$
<b>x</b> = 25.4 s	soldered on a gold plated Cu-cylinder with 25.4 mm $arnothing$
<b>x</b> = 25.0 w	soldered on a water cooled Cu-cylinder with 25.4 mm $\oslash$
<b>x</b> = FC	mounted on a 1 m monomode fiber cable with FC connector

## Low intensity spectral reflectance

