1

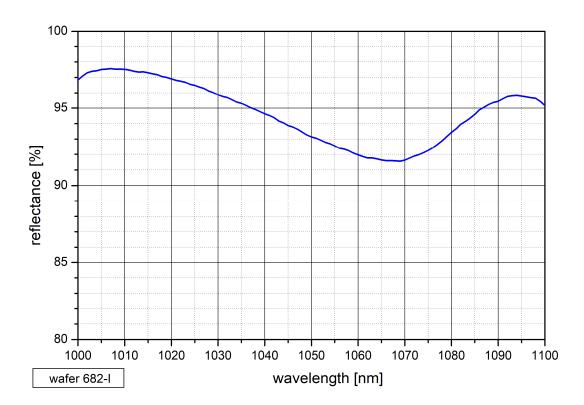


## SAM™ Data Sheet SAM-1064-8-14ps-x, λ = 1064 nm

Laser wavelength	$\lambda = 1064 \text{ nm}$
High reflection band	λ = 1010 1090 nm
Absorbance	A <sub>0</sub> = 8 %
Modulation depth	ΔR = 6 %
Non-saturable loss	A <sub>ns</sub> = 2 %
Saturation fluence	$\Phi_{sat}$ = 40 µJ/cm <sup>2</sup>
Relaxation time constant	τ = 14 ps
Damage threshold	$\Phi$ = 2.5 mJ/cm <sup>2</sup>
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:	
<b>x</b> = 0	unmounted
<b>x</b> = 12.7 g	glued on a gold plated Cu-cylinder with 12.7 mm $arnothing$
x = 25.4 g	glued on a gold plated Cu-cylinder with 25.4 mm $\emptyset$
<b>x</b> = 12.7 s	soldered on a gold plated Cu-cylinder with 12.7 mm $\emptyset$
<b>x</b> = 25.4 s	soldered on a gold plated Cu-cylinder with 25.4 mm $\varnothing$

× 20.10	
<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 25.0 mm $arnothing$
<b>x</b> = FC	mounted on a 1 m monomode fiber cable with FC connector

## Low intensity spectral reflectance



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