1

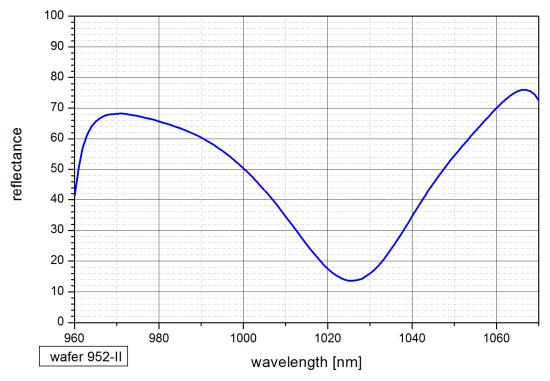


## SAM<sup>TM</sup> Data Sheet SAM-1040-65-2ps-x, $\lambda$ = 1040 nm

Laser wavelength		$\lambda = 1040 \text{ nm}$
High reflection band		λ = 970 1070 nm
Absorbance		A <sub>0</sub> = 65 %
Modulation depth		∆R = 39 %
Non-saturable loss		A <sub>ns</sub> = 26 %
Saturation fluence		$\Phi_{sat}$ = 30 µJ/cm <sup>2</sup>
Relaxation time constant		τ = 2 ps
Damage threshold		$\Phi$ = 600 µJ/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
x	x denotes the x = 0 x = 12.7  g x = 25.4  g	type of mounting as follows: unmounted glued on a gold plated Cu-cylinder with 12.7 mm $\emptyset$ glued on a gold plated Cu-cylinder with 25.4 mm $\emptyset$
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× 20.19	
<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 25.0 mm $arnothing$
<b>x</b> = FC	mounted on a 1 m monomode fiber cable with FC connector
	<b>x</b> = 25.4 s <b>x</b> = 25.0 w

## Low intensity spectral reflectance



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