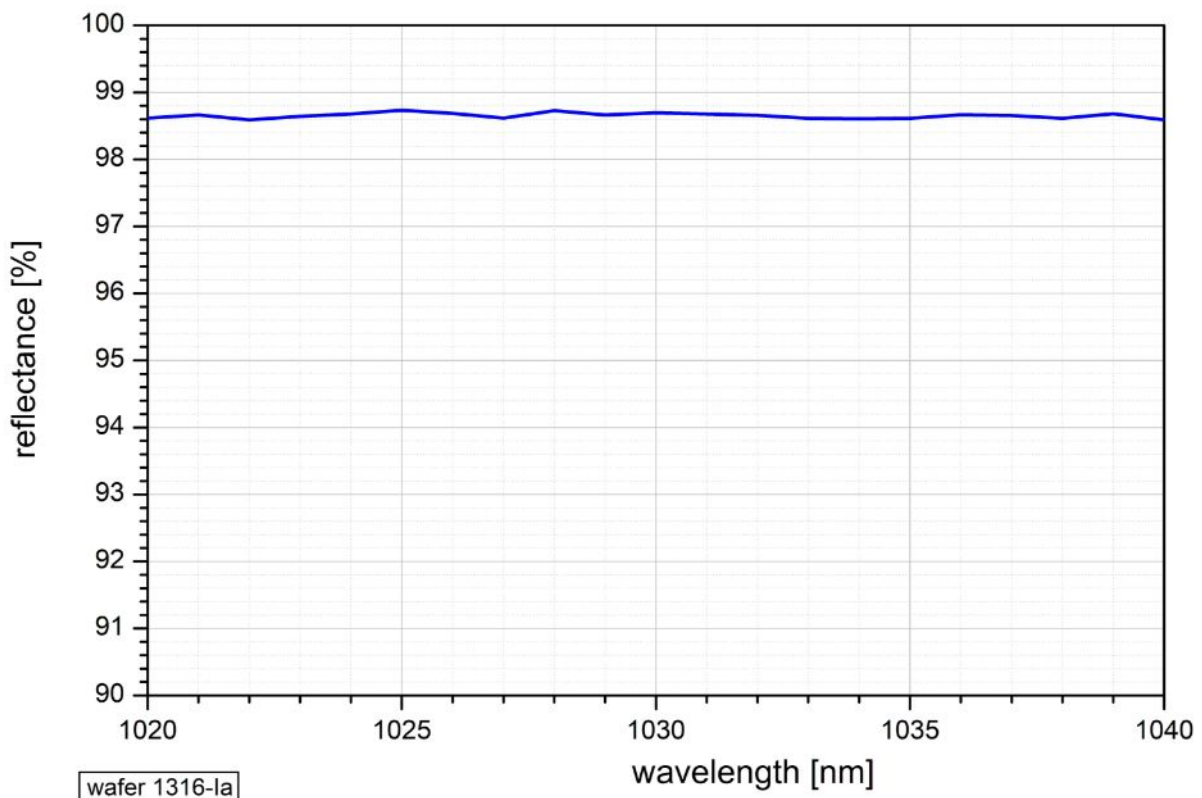
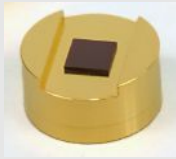
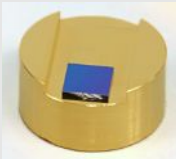


SAM™ Data Sheet SAM-1030-1-5ps-100-x, $\lambda = 1030$ nm

	Minimum	Typical Value	Maximum
Operational wavelength λ		1030 nm	
High reflection band	1020 nm	–	1040 nm
Absorbance A	0.7 %	1 %	1.5 %
Modulation depth Δ	0.4 %	0.6 %	-
Non-saturable loss A_{ns}	-	0.4 %	0.8 %
Saturation fluence Φ_{sat}	50 $\mu\text{J}/\text{cm}^2$	100 $\mu\text{J}/\text{cm}^2$	150 $\mu\text{J}/\text{cm}^2$
Relaxation time constant τ	3 ps	5 ps	8 ps
Damage threshold Φ		800 $\mu\text{J}/\text{cm}^2$	
Absorber Peak Temperature			150°C ¹
Chip thickness	425 μm	450 μm	475 μm
Protection	SAM is protected with a dielectric front layer		

¹ Please make sure that this temperature is not exceeded in pulsed operation shortly after the optical pulse.

Low intensity spectral reflectance


Mounting Options SAM-1030-20-15ps-50-x	Description
x = 4.0-0	Single chip, unmounted, chip size 4.0mm x 4.0mm
x = 1.0b-0	Batch of 4 unmounted chips, chip size 1.0mm x 1.0mm
x = 1.3b-0	Batch of 4 unmounted chips, chip size 1.3mm x 1.3mm
x = 4.0-12.7g-c / 4.0-12.7g-e	chip size 4.0mm x 4.0mm, glued on a gold plated Cu-cylinder with 12.7 mm diameter
x = 4.0-25.0g-c / 4.0-25.0g-e	chip size 4.0mm x 4.0mm, glued on a gold plated Cu-cylinder with 25.0 mm diameter
x = 4.0-25.4g-c / 4.0-25.4g-e	chip size 4.0mm x 4.0mm, glued on a gold plated Cu-cylinder with 25.4 mm diameter
x = 4.0-12.7s-c / 4.0-12.7s-e	chip size 4.0mm x 4.0mm, soldered on a gold plated Cu-cylinder with 12.7 mm diameter
x = 4.0-25.0s-c / 4.0-25.0s-e	chip size 4.0mm x 4.0mm, soldered on a gold plated Cu-cylinder with 25.0 mm diameter
x = 4.0-25.4s-c / 4.0-25.4s-e	chip size 4.0mm x 4.0mm, soldered on a gold plated Cu-cylinder with 25.4 mm diameter
x = 4.0-25.0w-c / 4.0-25.0w-e	chip size 4.0mm x 4.0mm, soldered on a water cooled copper heat sink with 25.0 mm diameter
x = 4.0-25.4h-c / 4.0-25.4h-e	chip size 4.0mm x 4.0mm, thin film soldered on a water cooled copper heat sink with 25.0 mm diameter for high power application
<p>-c Center mounting</p> 	<p>-e Edge mounting</p> 
x = FC/(A)PC-SMF	<p>mounted on a 1 m long single mode fiber</p> <ul style="list-style-type: none"> - FC/PC connector: x = FC/PC-SMF - FC/APC connector: x = FC/APC-SMF <p>available fiber types: HI 980, HI 1060</p>
x = FC/(A)PC-PMF	<p>mounted on a 1 m long polarization maintaining fiber</p> <ul style="list-style-type: none"> - FC/PC connector: x = FC/PC-PMF - FC/APC connector: x = FC/APC-PMF <p>available fiber types: SM98-PS-U25D</p>
Other chip dimensions are also possible, please ask.	