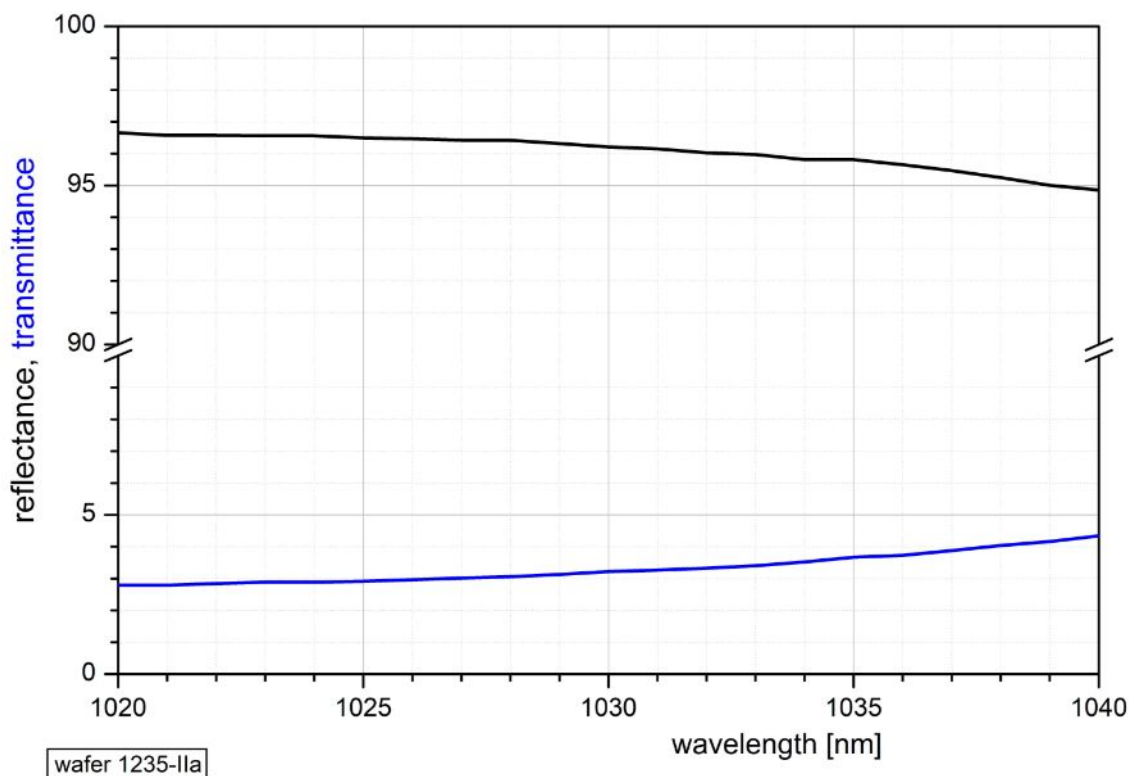


SOC Data Sheet SOC-1030-0.5-3-1ps-x, $\lambda = 1030$ nm

	Minimum	Typical Value	Maximum
Operational wavelength λ		1030 nm	
High reflection band	1020 nm	–	1040 nm
Absorbance A	0.3 %	0.5 %	0.7 %
Transmittance	2 %	3 %	4 %
Modulation depth Δ	0.2 %	0.3 %	-
Non-saturable loss A_{ns}	-	0.2 %	0.5 %
Saturation fluence Φ_{sat}	30 $\mu\text{J}/\text{cm}^2$	50 $\mu\text{J}/\text{cm}^2$	80 $\mu\text{J}/\text{cm}^2$
Relaxation time constant τ	0.5 ps	1 ps	1.5 ps
Damage threshold Φ		800 $\mu\text{J}/\text{cm}^2$	
Absorber Peak Temperature			150°C ¹
Chip thickness	600 μm	625 μm	650 μm
Protection	SOC is protected with a dielectric front and back 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 SOC-1030-0.5-1ps-x	Description
x = 5.0-0	Single chip, unmounted, chip size 5.0mm x 5.0mm, chip thickness 625 μ m
x = 5.0-12.7g	chip size 5.0mm x 5.0mm, glued on a gold plated Cu-cylinder with 12.7 mm diameter and 4 mm center hole
x = 5.0-25.0g	chip size 5.0mm x 5.0mm, glued on a gold plated Cu-cylinder with 25.4 mm diameter and 4 mm center hole
x = FC/PC-SMF	SOC chip mounted on a 1 m long single mode fiber with FC/PC connector, free space output beam available fiber types: HI 980, HI 1060
x = FC/PC-PMF	SOC chip mounted on a 1 m long polarization maintaining single mode fiber with FC/PC connector, free space output beam available fiber types: SM98-PS-U25D
Other chip dimensions are also possible, please ask.	