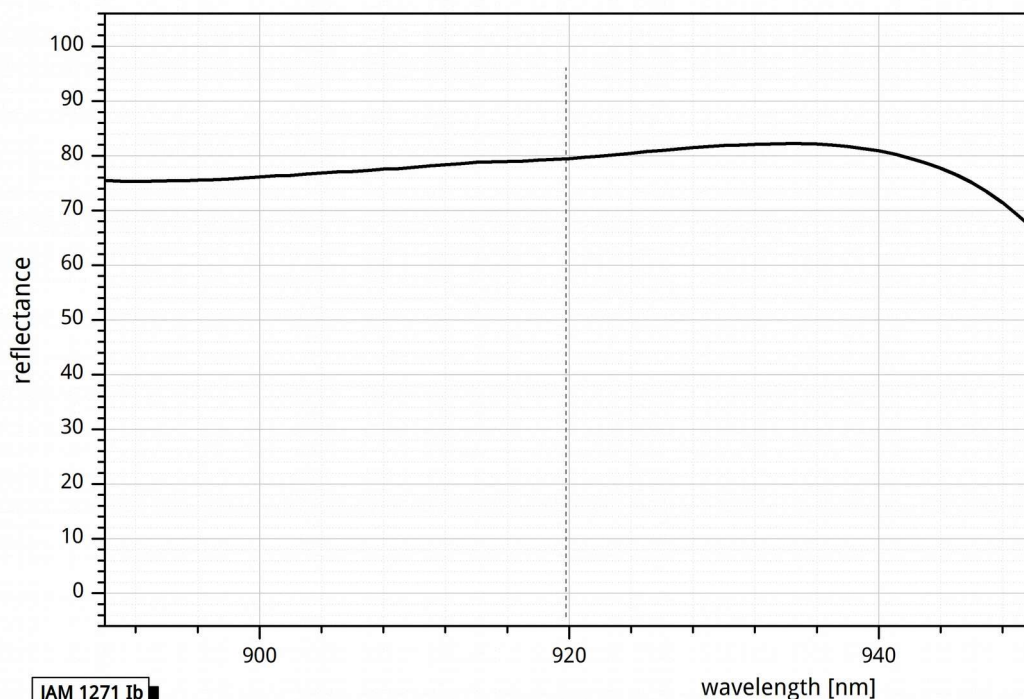


SAM™ Data Sheet SAM-920-20-3ps-15-x, $\lambda = 920$ nm

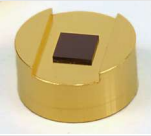
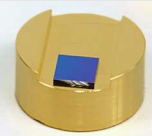
	Minimum	Typical Value	Maximum
Operational wavelength λ		920 nm	
High reflection band	890 nm	–	950 nm
Absorbance A	16 %	20 %	24 %
Modulation depth ΔR	10 %	13 %	-
Non-saturable loss A_{ns}	-	7 %	10 %
Saturation fluence Φ_{sat}	7 $\mu\text{J}/\text{cm}^2$	15 $\mu\text{J}/\text{cm}^2$	30 $\mu\text{J}/\text{cm}^2$
Relaxation time constant τ	1.5 ps	3 ps	5 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



JAM 1271 Ib

Mounting Options SAM-920-45-0.5ps-30-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 Ø
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 Ø
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 Ø
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 Ø
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 Ø
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 Ø
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/PC / FC/APC	<p>mounted on a 1 m monomode fiber cable with FC/PC / FC/APC connector</p> <p>available fiber types:</p> <p>780-HP, HI 980, PM780-HP, Fujikura SM85-PS-U25A (polarisation maintaining (PM) fiber)</p>
Other chip dimensions are also possible, please ask.	