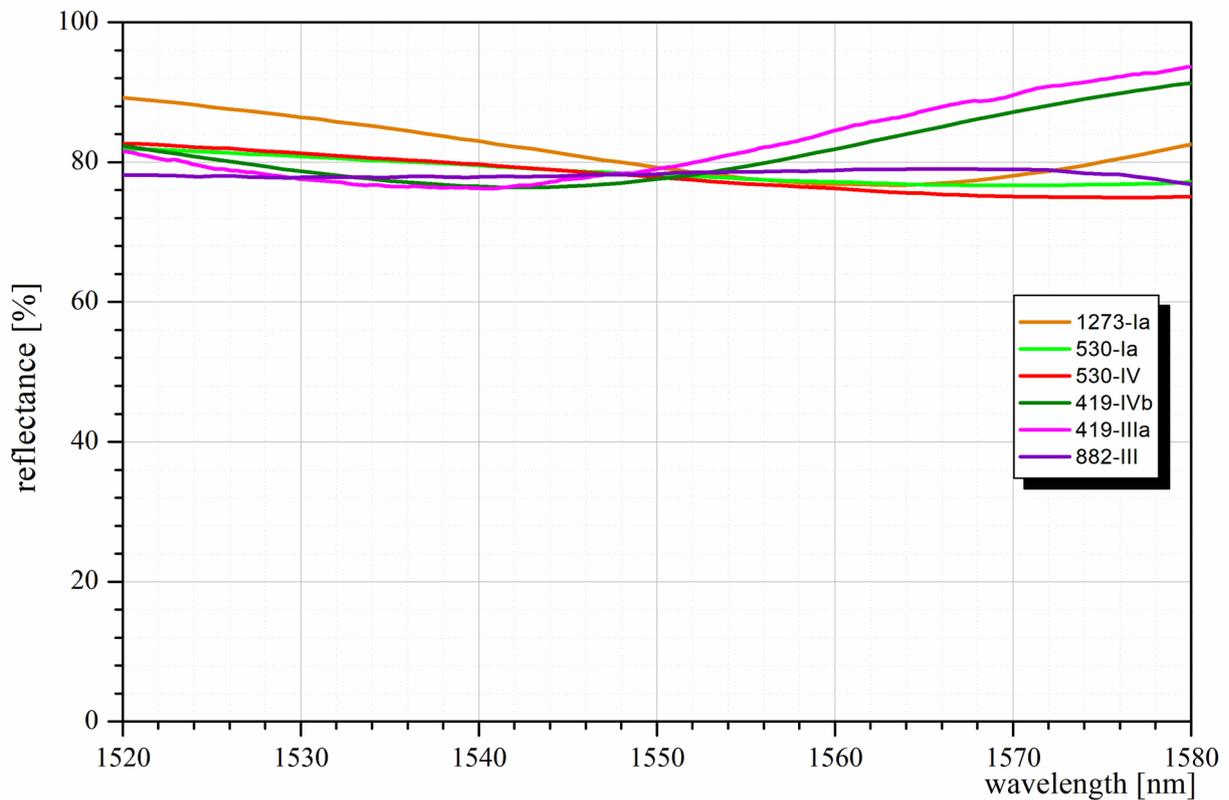
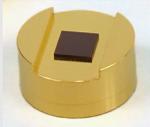


SAM™ Data Sheet SAM-1550-20-3ps-15-x, $\lambda = 1550$ nm

	Minimum	Typical Value	Maximum
Operational wavelength λ	-	1550 nm	-
High reflection band	1520 nm	-	1580 nm
Absorbance A	16 %	20 %	24 %
Modulation depth ΔR	7%	10 %	-
Non-saturable loss A_{ns}	-	10 %	13%
Saturation fluence Φ_{sat}	10 $\mu\text{J}/\text{cm}^2$	15 $\mu\text{J}/\text{cm}^2$	25 $\mu\text{J}/\text{cm}^2$
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 This temperature is not to be exceeded in any circumstances.

Typical Low Intensity Spectral Reflectance


Mounting Options SAM-1550-20-3ps-15-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 \varnothing
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 \varnothing
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 \varnothing
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 \varnothing
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 \varnothing
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 \varnothing
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
 -c Center mounting	 -e Edge mounting
x = FC/PC / FC/APC	mounted on a 1 m monomode fiber cable with FC/PC / FC/APC connector available fiber types: HI 980, HI 1060, Fujikura SM98-PS-U25A (polarisation maintaining (PM) fiber)
Other chip dimensions are also possible, please ask.	