

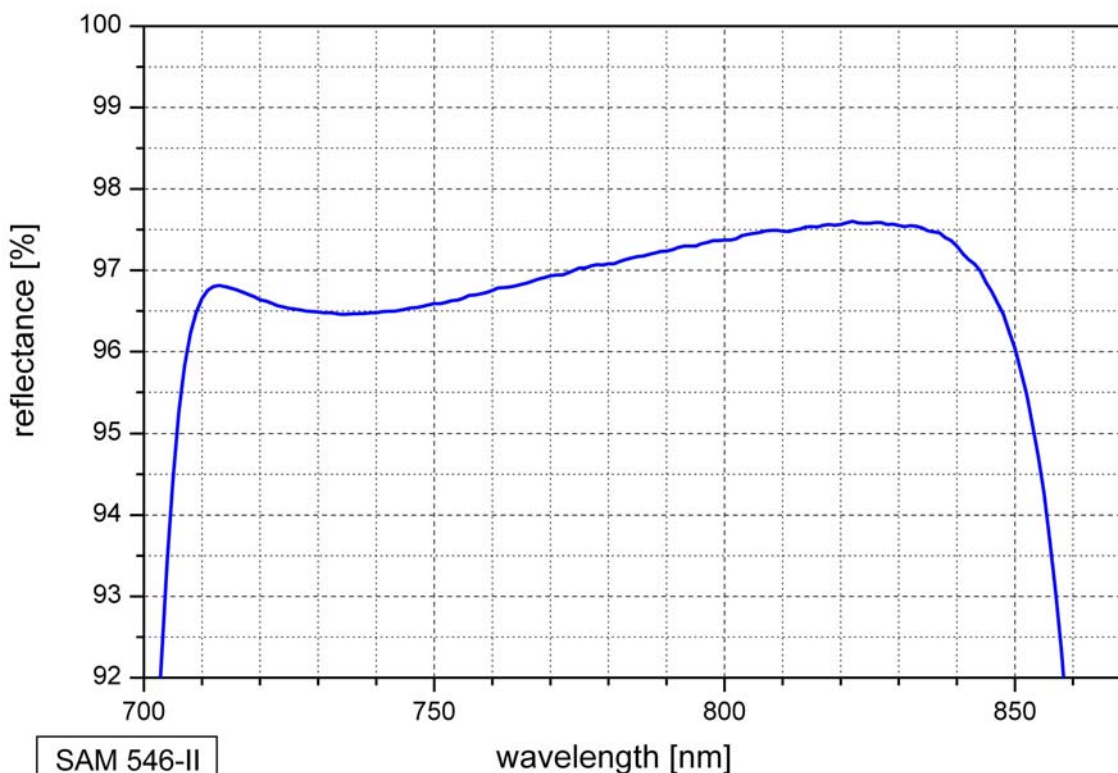
SAM™ data sheet SAM-800-3-x-500fs, $\lambda = 700$ nm

Laser wavelength	$\lambda = 800$ nm
High reflection band (R > 96%)	$\lambda = 710 \dots 840$ nm
Absorbance	$A_0 = 3$ %
Modulation depth	$\Delta R = 1$ %
Non-saturable loss	$A_{ns} = 2$ %
Saturation fluence	$\Phi_{sat} = 70$ $\mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 500$ fs
Damage threshold	800 MW/cm ²
Chip area	4mm x 4mm; other dimensions on request
Chip thickness	400 μm
Protection	the SAM is protected with a dielectric front layer

Mounting of SAM-800-3-x-500fs denotes the type of mounting as follows:

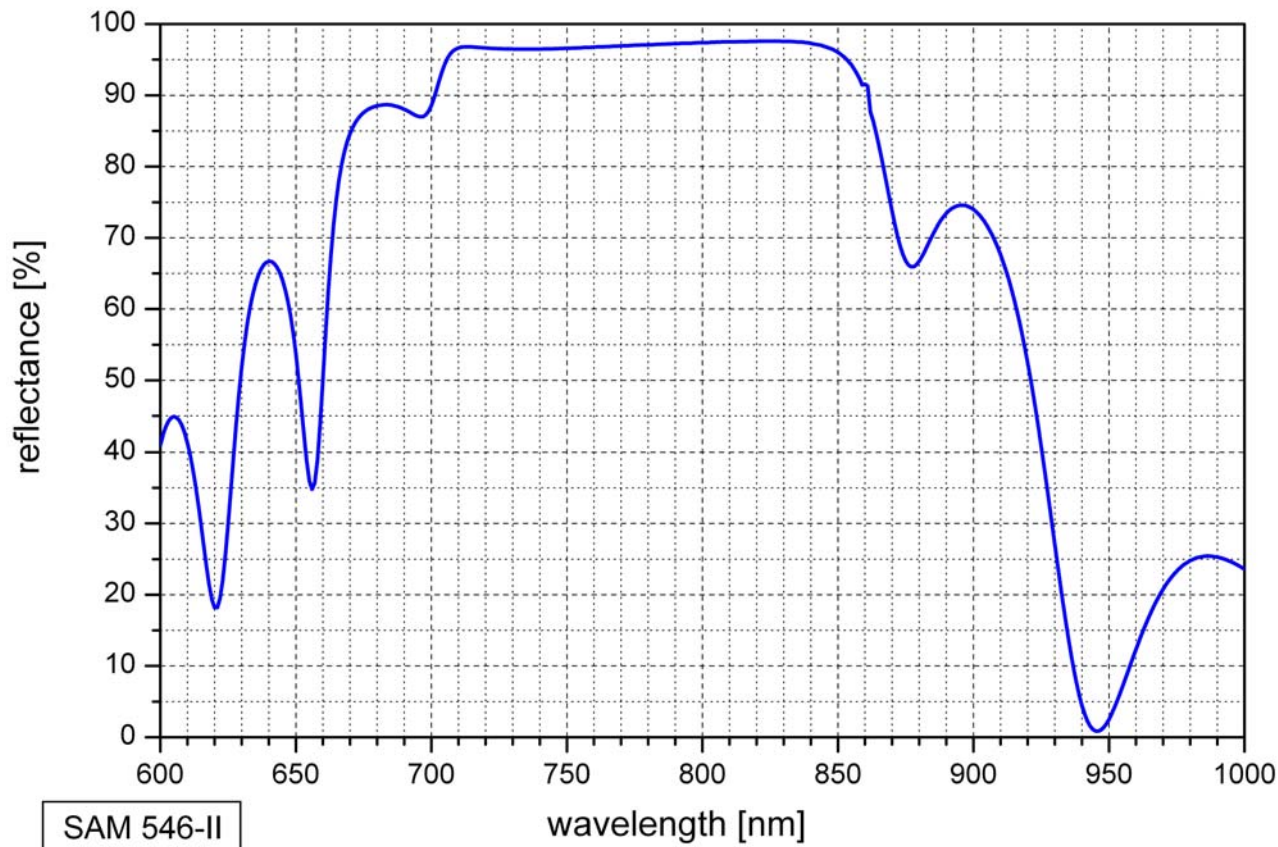
x = 0	unmounted
x = 12.7 g	glued on a gold plated Cu-cylinder with 12.7 mm \varnothing
x = 25.4 g	glued on a gold plated Cu-cylinder with 25.4 mm \varnothing
x = 12.7 s	soldered on a gold plated Cu-cylinder with 12.7 mm \varnothing
x = 25.4 s	soldered on a gold plated Cu-cylinder with 25.4 mm \varnothing
x = 25.0 w	soldered on a water cooled Cu-cylinder with 25.0 mm \varnothing
x = FC	mounted on a 1 m monomode fiber cable with FC connector

Low intensity spectral reflectance



SAM 546-II





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