

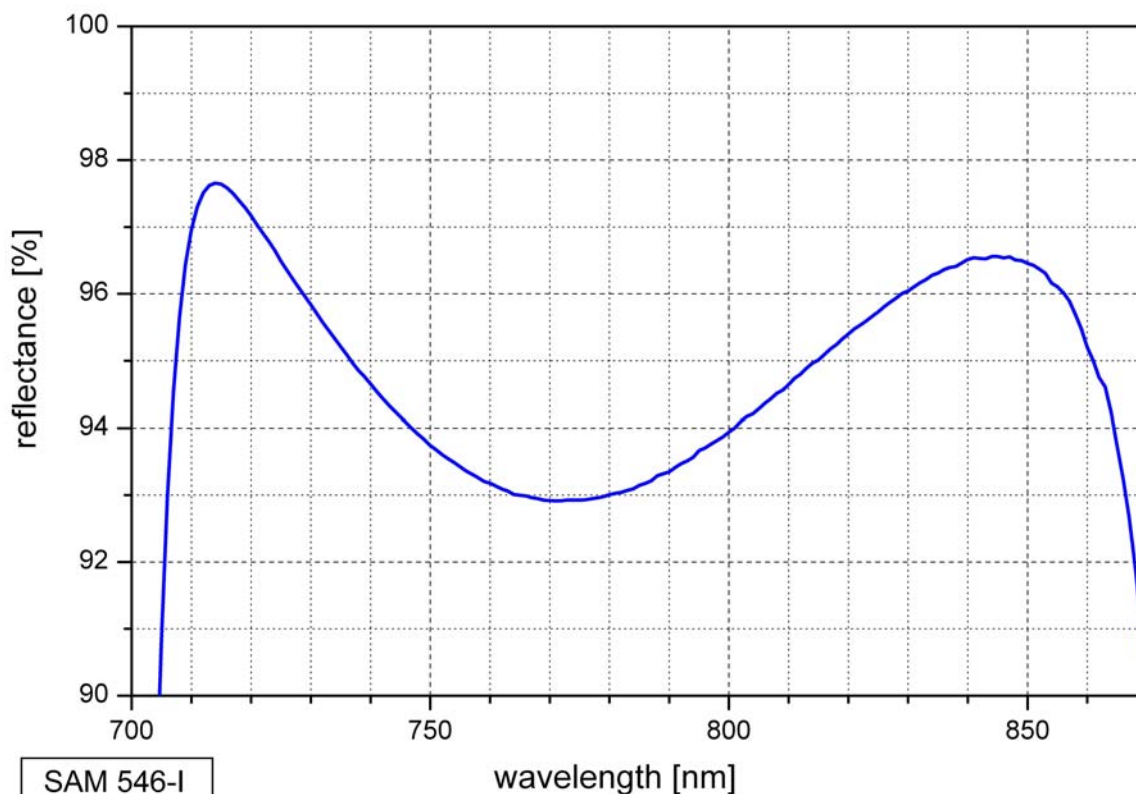
### SAM™ data sheet SAM-800-6-x-500fs, $\lambda = 800 \text{ nm}$

Laser wavelength	$\lambda = 800 \text{ nm}$
High reflection band (R > 93%)	$\lambda = 710 \text{ .. } 850 \text{ nm}$
Absorbance	$A_0 = 6 \%$
Modulation depth	$\Delta R = 2 \%$
Non-saturable loss	$A_{ns} = 4 \%$
Saturation fluence	$\Phi_{sat} = 50 \mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 500 \text{ fs}$
Damage threshold	$600 \text{ MW}/\text{cm}^2$
Chip area	4mm x 4mm; other dimensions on request
Chip thickness	400 $\mu\text{m}$
Protection	the SAM is protected with a dielectric front layer

Mounting of SAM-800-6-x-500fs denotes the type of mounting as follows:

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

#### Low intensity spectral reflectance



SAM 546-I



