

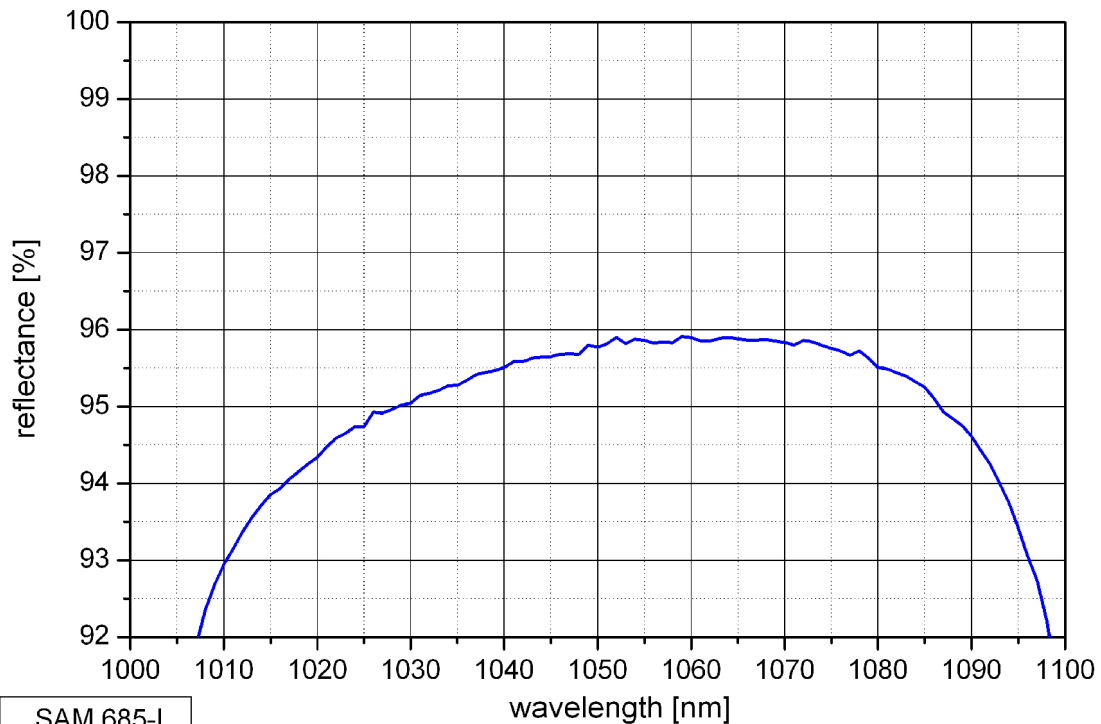
SAM™ Data Sheet SAM-1040-5-1ps-x, $\lambda = 1040$ nm

Laser wavelength	$\lambda = 1040$ nm
High reflection band (R > 90%)	$\lambda = 1020 \dots 1100$ nm
Absorbance	$A_0 = 5$ %
Modulation depth	$\Delta R = 3$ %
Non-saturable loss	$A_{ns} = 2$ %
Saturation fluence	$\Phi_{sat} = 45$ $\mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 1$ ps
Damage threshold	700 MW/cm ²
Chip area	4 mm x 4 mm; other dimensions on request
Chip thickness	450 μm
Protection	the SAM is protected with a dielectric front layer

Mounting option **x** denotes the type of mounting as follows:

x = 0	unmounted
x = 12.7 g	glued on a copper heat sink with 12.7 mm \varnothing
x = 25.4 g	glued on a copper heat sink with 25.4 mm \varnothing
x = 12.7 s	soldered on a copper heat sink with 12.7 mm \varnothing
x = 25.4 s	soldered on a copper heat sink 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 singlemode fiber cable with FC connector

Low intensity spectral reflectance



SAM 685-I

Saturation measurement

