

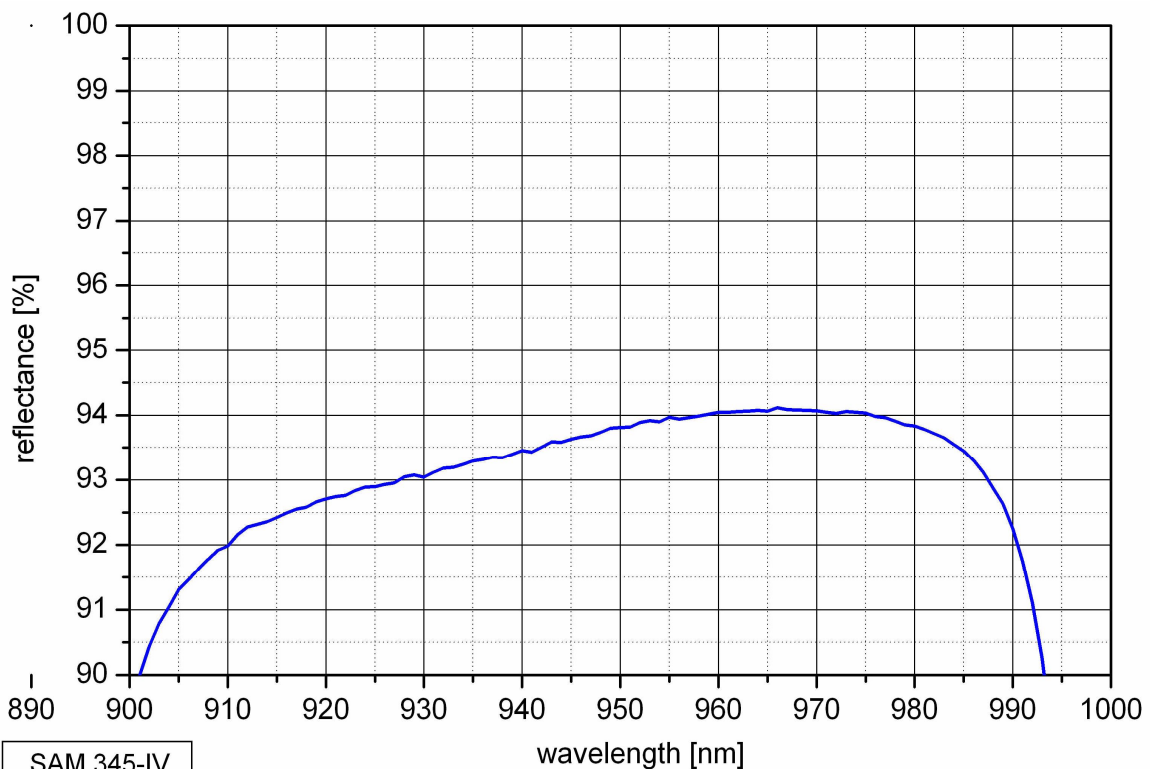
## SAM™ Data Sheet SAM-940-6-1ps-x, $\lambda = 940$ nm

Laser wavelength	$\lambda = 940$ nm
High reflection band	$\lambda = 920 \dots 990$ nm
Absorbance	$A_0 = 6$ %
Modulation depth	$\Delta R = 3.5$ %
Non-saturable loss	$A_{ns} = 2.5$ %
Saturation fluence	$\Phi_{sat} = 50 \mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 1$ ps
Damage threshold	$\Phi = 2 \text{ mJ}/\text{cm}^2$
Chip area	4.0 mm x 4.0 mm; other dimensions on request
Chip thickness	450 $\mu\text{m}$
Protection	the SAM is protected with a dielectric front layer

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

<b>x</b> = 0	unmounted
<b>x</b> = 12.7 g	glued on a copper heat sink with 12.7 mm $\varnothing$
<b>x</b> = 25.4 g	glued on a copper heat sink with 25.4 mm $\varnothing$
<b>x</b> = 12.7 s	soldered on a copper heat sink with 12.7 mm $\varnothing$
<b>x</b> = 25.4 s	soldered on a copper heat sink with 25.4 mm $\varnothing$
<b>x</b> = 25.0 h	soldered on a water cooled copper heat sink with 25.0 mm $\varnothing$
<b>x</b> = FC	mounted on a 1 m singlemode fiber cable with FC connector

### low intensity spectral reflectance



SAM 345-IV