

## SAM™ data sheet SAM-940-4-x, $\lambda = 940$ nm

Laser wavelength	$\lambda = 940$ nm
High reflection band (R > 99%)	$\lambda = 910 \dots 990$ nm
Saturable absorptance	$A_0 = 4$ %
Saturation fluence	$\Phi_{\text{sat}} = 70$ $\mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \leq 10$ ps
Non-saturable loss	$A_{\text{ns}} < 0.3$ %
Chip area	4mm x 4mm; other dimensions on request
Chip thickness	350 $\mu\text{m}$
Protection	the SAM is protected with a dielectric front layer
Mounting of SAM-940-4-x	denotes the type of mounting as follows:
<b>x = 0</b>	unmounted
<b>x = 12.7</b>	glued on a gold plated Cu-cylinder with 12.7 mm $\varnothing$
<b>x = 25.4</b>	glued on a gold plated Cu-cylinder with 25.4 mm $\varnothing$
<b>x = 12.7 s</b>	soldered on a gold plated Cu-cylinder with 12.7 mm $\varnothing$
<b>x = 25.4 s</b>	soldered on a gold plated Cu-cylinder with 25.4 mm $\varnothing$
<b>x = FC</b>	mounted on a 2 m monomode fiber cable with FC connector

### Spectral reflectance

