

### SAM™ data sheet SAM-980-2-x-500fs, $\lambda = 980$ nm

Laser wavelength	$\lambda = 980$ nm
High reflection band (R > 99%)	$\lambda = 920 \dots 1000$ nm
Saturable absorptance	$A_0 = 2$ %
Saturation fluence	$\Phi_{\text{sat}} = 70$ $\mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 500$ fs
Non-saturable loss	$A_{\text{ns}} < 0.3$ %
Chip area	4mm x 4mm; other dimensions on request
Chip thickness	400 $\mu\text{m}$ ; optional: 100 $\mu\text{m}$ on request
Protection	the SAM is protected with a dielectric front layer
Mounting of SAM-980-2-x	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 = FC	mounted on a 1 m monomode fiber cable with FC connector

### Spectral reflectance

