

SAM™ data sheet SAM-980-4-x-500fs, $\lambda = 980 \text{ nm}$

Laser wavelength	$\lambda = 980 \text{ nm}$
High reflection band (R > 99%)	$\lambda = 920 \dots 1000 \text{ nm}$
Saturable absorptance	$A_0 = 4 \%$
Saturation fluence	$\Phi_{\text{sat}} = 70 \mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 500 \text{ fs}$
Non-saturable loss	$A_{\text{ns}} < 0.6 \%$
Chip area	4mm x 4mm; other dimensions on request
Chip thickness	400 μm ; optional: 100 μm on request
Protection	the SAM is protected with a dielectric front layer
Mounting of SAM-980-4-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

