

SAM™ Data Sheet SAM-980-70-500fs-x, $\lambda = 980$ nm

Laser wavelength	$\lambda = 980$ nm
High reflection band	$\lambda = 930 \dots 1020$ nm
Absorbance	$A_0 = 70$ %
Modulation depth	$\Delta R = 42$ %
Non-saturable loss	$A_{ns} = 28$ %
Saturation fluence	$\Phi_{sat} = 70$ $\mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 500$ fs
Damage threshold	$\Phi_{sat} = 800$ $\mu\text{J}/\text{cm}^2$
Chip area	4.0 mm x 4.0 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 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

Low intensity spectral reflectance

