

SAM™ Data Sheet SAM-980-4-1ps-x, $\lambda = 980$ nm

Laser wavelength	$\lambda = 980$ nm
High reflection band	$\lambda = 910 \dots 990$ nm
Saturable absorptance	$A_0 = 4$ %
Modulation depth	$\Delta R = 2.4$ %
Non-saturable loss	$A_{ns} = 1.6$ %
Saturation fluence	$\Phi_{sat} = 80$ $\mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 1$ ps
Damage threshold	$\Phi = 1.2$ mJ/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

