

SAM™ Data Sheet SAM-1040-2.5-800fs-x, $\lambda = 1040$ nm

Laser wavelength	$\lambda = 1040$ nm
High reflection band	$\lambda = 990 \dots 1060$ nm
Absorbance	$A_0 = 2.5$ %
Modulation depth	$\Delta R = 1.5$ %
Non-saturable loss	$A_{ns} = 1$ %
Saturation fluence	$\Phi_{sat} = 180 \mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau = 800$ fs
Damage threshold	$\Phi = 3 \text{ mJ}/\text{cm}^2$
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 = 25.4 w** soldered on a water cooled Cu-cylinder with 25.4 mm \varnothing
- x = FC** mounted on a 1 m monomode fiber cable with FC connector

Low intensity spectral reflectance and dispersion

