

SAM™ Data Sheet SAM-1040-5-800fs-x, $\lambda = 1040$ nm

Laser wavelength	$\lambda = 1040$ nm
High reflection band	$\lambda = 1000 \dots 1060$ nm
Absorbance	$A_0 = 5$ %
Modulation depth	$\Delta R = 3$ %
Non-saturable loss	$A_{ns} = 2$ %
Saturation fluence	$\Phi_{sat} = 90 \mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau = 800$ fs
Damage threshold	$\Phi = 2 \text{ mJ}/\text{cm}^2$
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 copper heat sink with 12.7 mm \varnothing
- x** = 25.4 g glued on a copper heat sink with 25.4 mm \varnothing
- x** = 12.7 s soldered on a copper heat sink with 12.7 mm \varnothing
- x** = 25.4 s soldered on a copper heat sink with 25.4 mm \varnothing
- x** = 25.0 w soldered on a water cooled Cu-cylinder with 25.0 mm \varnothing
- x** = FC mounted on a 1 m singlemode fiber cable with FC connector

Low intensity spectral reflectance

