

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

Laser wavelength	$\lambda = 1040 \text{ nm}$
High reflection band	$\lambda = 1000 \dots 1060 \text{ nm}$
Absorbance	$A_0 = 5 \%$
Modulation depth	$\Delta R = 3 \%$
Non-saturable loss	$A_{\text{ns}} = 2 \%$
Saturation fluence	$\Phi_{\text{sat}} = 90 \mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau = 800 \text{ fs}$
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

