

SAM™ Data Sheet SAM-1040-10-5ps-x, $\lambda = 1040 \text{ nm}$

Laser wavelength	$\lambda = 1040 \text{ nm}$
High reflection band	$\lambda = 1000 \dots 1070 \text{ nm}$
Absorbance	$A_0 = 10 \%$
Modulation depth	$\Delta R = 6 \%$
Non-saturable loss	$A_{ns} = 4 \%$
Saturation fluence	$\Phi_{sat} = 35 \mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau = 5 \text{ ps}$
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 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 copper heat sink with 25.0 mm \varnothing
- x = FC** mounted on a 1 m single mode fiber with FC connector

Low intensity spectral reflectance

