

SAM™ data sheet SAM-1064-4-x-1ps, $\lambda = 1064 \text{ nm}$

Laser wavelength	$\lambda = 1064 \text{ nm}$
High reflection band (R > 94%)	$\lambda = 1020 \dots 1100 \text{ nm}$
Absorbance	$A_0 = 4 \%$
Modulation depth	$\Delta R = 2.4 \%$
Non-saturable loss	$A_{ns} = 1.6 \%$
Saturation fluence	$\Phi_{sat} = 70 \mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 1 \text{ ps}$
Damage threshold	$600 \text{ MW}/\text{cm}^2$
Chip area	4mm x 4mm; other dimensions on request
Chip thickness	400 μm
Protection	the SAM is protected with a dielectric front layer
Mounting of SAM-1064-4-x-1ps	denotes the type of mounting as follows:
$x = 0$	unmounted
$x = 12.7 \text{ g}$	glued on a gold plated Cu-cylinder with 12.7 mm \varnothing
$x = 25.4 \text{ g}$	glued on a gold plated Cu-cylinder with 25.4 mm \varnothing
$x = 12.7 \text{ s}$	soldered on a gold plated Cu-cylinder with 12.7 mm \varnothing
$x = 25.4 \text{ s}$	soldered on a gold plated Cu-cylinder with 25.4 mm \varnothing
$x = 25.0 \text{ w}$	soldered on a water cooled Cu-cylinder with 25.0 mm \varnothing
$x = \text{FC}$	mounted on a 1 m monomode fiber cable with FC connector

Low intensity spectral reflectance

