

SAM™ data sheet SAM-1064-70-x-500fs, $\lambda = 1064 \text{ nm}$

Laser wavelength	$\lambda = 1064 \text{ nm}$
High reflection band (R > 30%)	$\lambda = 1020 \dots 1120 \text{ nm}$
Absorptance	$A_0 = 70 \%$
Modulation depth	$\Delta R = 40 \%$
Non-saturable loss	$A_{ns} = 30 \%$
Saturation fluence	$\Phi_{sat} = 40 \mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 500 \text{ fs}$
Absorber layer	multiple quantum well
Damage threshold	$150 \text{ MW}/\text{cm}^2$
Chip area	4mm x 4mm; other dimensions on request
Chip thickness	400 μm ; optional: 150 μm on request
Protection	the SAM is protected with a dielectric front layer
Mounting of SAM-1064-70-x-500fs	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
$x = \text{FC/PC}$	mounted on a 1 m monomode fiber cable with FC/PC connector

Low intensity spectral reflectance

