

### SA data sheet SA-1064-25-x-500fs, $\lambda = 1064 \text{ nm}$

Laser wavelength	$\lambda = 1050 \text{ nm} \dots 1090 \text{ nm}$
Absorptance	$A_0 = 25 \%$
Modulation depth	$\Delta T = 13 \%$
Non-saturable loss	$A_{ns} = 12 \%$
Saturation fluence	$\Phi_{sat} = 300 \mu\text{J}/\text{cm}^2$
Damage threshold	$P/A = 200 \text{ MW}/\text{cm}^2$
Relaxation time constant	$\tau \sim 500 \text{ fs}$
Chip area	5mm x 5mm; other dimensions on request
Chip thickness	625 $\mu\text{m}$ ; semi-insulating GaAs
Front side protection	AR coating for 1064 nm
Back side coating	the SA back side is polished and antireflection coated for 1064 nm

Mounting of SA-1064-24-x-500fs denotes the type of mounting as follows:

$x = 0$	unmounted
$x = 12.7 \text{ g}$	glued on a copper heat sink with 12.7 mm $\varnothing$ and 4 mm $\varnothing$ center hole
$x = 25.4 \text{ g}$	glued on a copper heat sink with 25.4 mm $\varnothing$ and 4 mm $\varnothing$ center hole
$x = \text{FC}$	a back-thinned SA chip with 100 $\mu\text{m}$ thickness is mounted inside a 1 m monomode fiber cable

### low intensity transmission, reflection and absorption

