

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

Laser wavelength	$\lambda = 1050 \text{ nm} \dots 1090 \text{ nm}$
Absorptance	$A_0 = 25 \%$
Modulation depth	$\Delta T = 13 \%$
Non-saturable loss	$A_{\text{ns}} = 12 \%$
Saturation fluence	$\Phi_{\text{sat}} = 300 \mu\text{J}/\text{cm}^2$
Damage threshold	$\Phi = 1.2 \text{ mJ}/\text{cm}^2$
Relaxation time constant	$\tau \sim 500 \text{ fs}$
Chip area	5.0 mm x 5.0 mm; 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-1064-24-500fs-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 $\varnothing$ and 4 mm $\varnothing$ center hole
x = 25.4 g	glued on a copper heat sink with 25.4 mm $\varnothing$ and 4 mm $\varnothing$ center hole
x = 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

