

SA data sheet SA-1550-46-x, $\lambda = 1550 \text{ nm}$

Laser wavelength	$\lambda = 1400 \text{ nm} \dots 1600 \text{ nm}$
Absorptance	$A_0 = 46 \%$
Modulation depth	$\Delta T = 28 \%$
Non-saturable loss	$A_{ns} = 18 \%$
Saturation fluence	$\Phi_{sat} = 300 \mu\text{J}/\text{cm}^2$
Damage threshold	$\Phi = 1.5 \text{ mJ}/\text{cm}^2$
Relaxation time constant	$\tau \sim 2 \text{ ps}$
Chip area	5.0 mm x 5.0 mm; other dimensions on request
Chip thickness	625 μm ; semi-insulating GaAs
Front side protection	AR coating for 1550 nm
Back side coating	the SA back side is polished and antireflection coated for 1550 nm
Mounting option x denotes the type of mounting as follows:	
x = 0	unmounted chip with area 5mm x 5mm
x = 12.7 g	glued on a copper heat sink with 12.7 mm \varnothing with 4 mm \varnothing center hole
x = 25.4 g	glued on a copper heat sink with 25.4 mm \varnothing with 4 mm \varnothing center hole
x = FC	a back-thinned SA chip with 150 μm thickness is mounted inside a 1 m long single mode fiber cable

Spectral low intensity reflectance, transmittance and absorptance

