

SA data sheet SA-2000-43-x, $\lambda = 2000$ nm

Laser wavelength	$\lambda = 1800$ nm ... 2200 nm
Absorptance	$A_0 = 43$ % @ 2000 nm
Transmittance	$T_0 = 56$ % @ 2000 nm
Reflectance	$R_0 = 0.2$ % @ 2000 nm
Modulation depth	$\Delta T = 23$ % @ 2000 nm
Non-saturable loss	$A_{ns} = 20$ % @ 2000 nm
Saturation fluence	$\Phi_{sat} = 300$ $\mu\text{J}/\text{cm}^2$
Damage threshold	$P/A = 300$ MW/cm^2
Relaxation time constant	$\tau \sim 1$ ps
Chip area	5mm x 5mm; other dimensions on request
Chip thickness	625 μm or 150 μm for fiber butt coupling ; semi-insulating GaAs
Front side protection	AR coating for 2 μm
Back side coating	the SA back side is polished and antireflection coated for 2 μm
Mounting of SA-2000-43-x	denotes the type of mounting as follows:
x = 0	unmounted
x = 12.7 g	glued on a gilded Cu-cylinder with 12.7 mm \varnothing and 4 mm \varnothing center hole
x = 25.4 g	glued on a gilded Cu-cylinder with 25.4 mm \varnothing and 4 mm \varnothing center hole

Spectral low intensity transmittance, reflectance and absorptance

