

SAM™ Data Sheet SAM-2000-2-1ps-x, $\lambda = 2000$ nm

Laser wavelength	$\lambda = 2000$ nm
High reflection band (R > 96%)	$\lambda = 1700 \dots 2150$ nm
Absorbance	$A_0 = 2$ %
Modulation depth	$\Delta R = 1.2$ %
Non-saturable loss	$A_{ns} = 0.8$ %
Saturation fluence	$\Phi_{sat} = 70$ $\mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 1$ ps
Damage threshold	800 MW/cm ²
Chip area	4mm x 4mm; other dimensions on request
Chip thickness	625 μm
Design	laser beam goes through the AR coated GaAs substrate
Mounting option x denotes the type of mounting as follows:	
x = 0	unmounted
x = 12.7 g	glued on a gold plated Cu-cylinder with 12.7 mm \varnothing
x = 25.4 g	glued on a gold plated Cu-cylinder with 25.4 mm \varnothing
x = 12.7 s	soldered on a gold plated Cu-cylinder with 12.7 mm \varnothing
x = 25.4 s	soldered on a gold plated Cu-cylinder with 25.4 mm \varnothing

Low intensity spectral reflectance

