

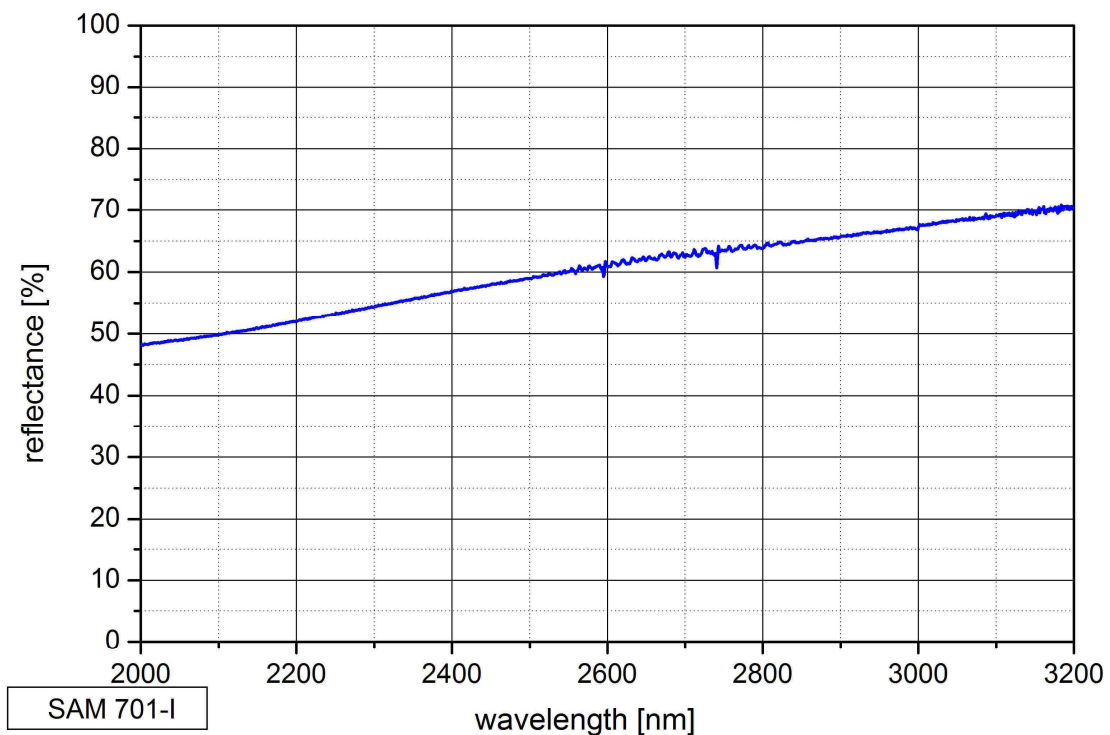
SAM™ Data Sheet SAM-3000-33-10ps-x, $\lambda = 3000 \text{ nm}$

Laser wavelength	$\lambda = 3000 \text{ nm}$
High reflection band	$\lambda = 2000 \dots 3400 \text{ nm}$
Absorbance	$A_0 = 33 \%$
Modulation depth	$\Delta R = 18 \%$
Non-saturable loss	$A_{ns} = 15 \%$
Saturation fluence	$\Phi_{sat} = 70 \mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 10 \text{ ps}$
Damage threshold	$\Phi = 1 \text{ mJ}/\text{cm}^2$
Chip area	4.0 mm x 4.0 mm; other dimensions on request
Chip thickness	625 μm
Design	The SAM use a gold mirror The laser beam goes through the AR coated GaAs wafer

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

Low intensity spectral reflectance



Reverse design of the SAM-3000-33-1ps-x