

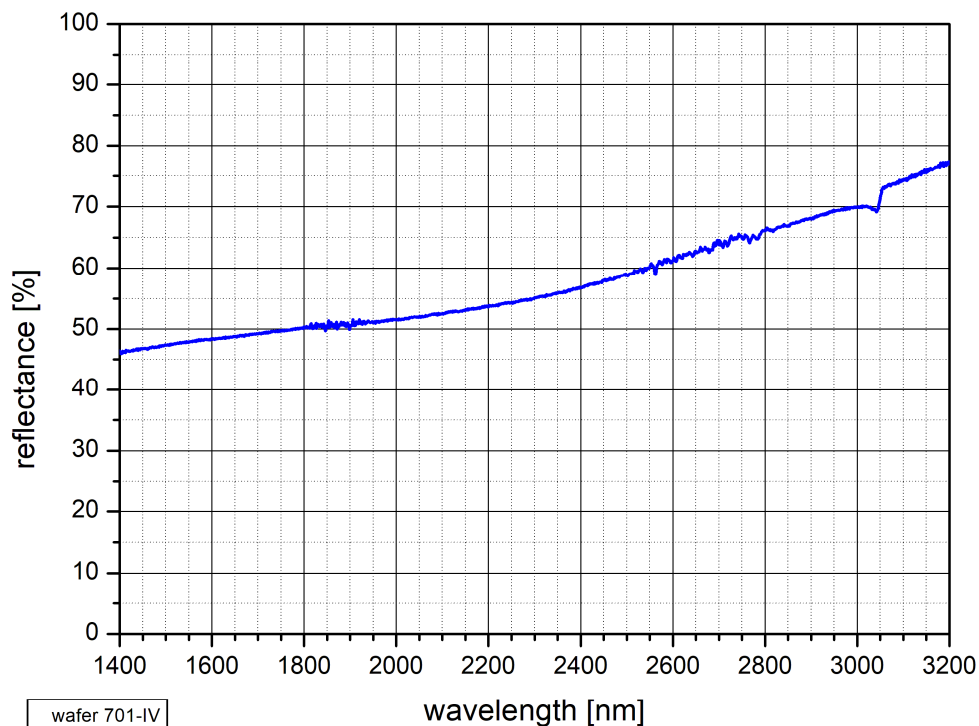
### SAM™ Data Sheet SAM-2800-34-10ps-x, $\lambda = 2800 \text{ nm}$

Laser wavelength	$\lambda = 2800 \text{ nm}$
High reflection band	$\lambda = 2600 \dots 3200 \text{ nm}$
Absorbance	$A_0 = 34 \%$
Modulation depth	$\Delta R = 20 \%$
Non-saturable loss	$A_{ns} = 14 \%$
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 $\mu\text{m}$
Reverse design	The laser beam is supplied through the AR coated GaAs substrate Please see figure below on page 2

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-2800-20-10ps-x

