

### SAM™ data sheet SAM-2000-43-x-500fs, $\lambda = 2000$ nm

Laser wavelength	$\lambda = 2000$ nm
High reflection band (R > 45%)	$\lambda = 1900 .. 2050$ nm
Absorbance	$A_0 = 43$ %
Modulation depth	$\Delta R = 25$ %
Non-saturable loss	$A_{ns} = 18$ %
Saturation fluence	$\Phi_{sat} = 35$ $\mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 500$ fs
Damage threshold	300 $\text{MW}/\text{cm}^2$
Chip area	4mm x 4mm; other dimensions on request
Chip thickness	400 $\mu\text{m}$
Protection	the SAM is protected with a dielectric front layer

Mounting of SAM-2000-43-x-500fs denotes the type of mounting as follows:

<b>x</b> = 0	unmounted
<b>x</b> = 12.7 g	glued on a gold plated Cu-cylinder with 12.7 mm $\varnothing$
<b>x</b> = 25.4 g	glued on a gold plated Cu-cylinder with 25.4 mm $\varnothing$
<b>x</b> = 12.7 s	soldered on a gold plated Cu-cylinder with 12.7 mm $\varnothing$
<b>x</b> = 25.4 s	soldered on a gold plated Cu-cylinder with 25.4 mm $\varnothing$
<b>x</b> = FC	mounted on a 1 m monomode fiber cable with FC connector

#### Low intensity spectral reflectance

