

**SAM™ Data Sheet SAM-1645-4-2ps-x,  $\lambda = 1645$  nm**

Laser wavelength	$\lambda = 1645$ nm
High reflection band	$\lambda = 1580 .. 1650$ nm
Absorbance	$A_0 = 4$ %
Modulation depth	$\Delta R = 2.4$ %
Non-saturable loss	$A_{ns} = 1.6$ %
Saturation fluence	$\Phi_{sat} = 110$ $\mu\text{J}/\text{cm}^2$
Relaxation time constant	$\tau \sim 2$ ps
Damage threshold	$\Phi = 1.5$ $\text{mJ}/\text{cm}^2$
Chip area	4.0 mm x 4.0 mm; other dimensions on request
Chip thickness	450 $\mu\text{m}$
Protection	the SAM is protected with a dielectric front layer

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  $\varnothing$
- x** = 25.0 w soldered on a water cooled Cu-cylinder with 25.0 mm  $\varnothing$
- x** = FC mounted on a 1 m monomode fiber cable with FC connector

**Low intensity spectral reflectance**

