

## SAM™ Data Sheet SAM-1645-2-2ps-x, λ = 1645 nm

Laser wavelength	$\lambda = 1645 \text{ nm}$	
High reflection band	λ = 1580 1720 nm	
Absorbance	A <sub>0</sub> = 2 %	
Modulation depth	ΔR = 1.2 %	
Non-saturable loss	A <sub>ns</sub> = 0.8 %	
Saturation fluence	$\Phi_{sat}$ = 90 µJ/cm <sup>2</sup>	
Relaxation time constant	τ ~ 2 ps	
Damage threshold	$\Phi = 2 \text{ mJ/cm}^2$	
Chip area	4.0 mm x 4.0 mm; other dimensions on request	
Chip thickness	450 μm	
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 $@$		
<b>x</b> = 12.7 g	glued on a gold plated Cu-cylinder with 12.7 mm $\varnothing$	

glued on a gold plated Cu-cylinder with 25.4 mm  $\oslash$ x = 25.4 g**x** = 12.7 s soldered on a gold plated Cu-cylinder with 12.7 mm  $\oslash$ 

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<b>x</b> = 25.4 s	soldered on a gold plated Cu-cylinder with 25.4 mm $arnothing$
<b>x</b> = 25.0 w	soldered on a water cooled Cu-cylinder with 25.0 mm $arnothing$
x = FC	mounted on a 1 m monomode fiber cable with FC connector

## Low intensity spectral reflectance

