

## SAM™ Data Sheet SAM-1340-7-1ps-x, λ = 1340 nm

Laser wavelength	λ = 1340 nm
High reflection band	λ = 1300 1400 nm
Absorbance	A <sub>0</sub> = 7 %
Modulation depth	ΔR =4 %
Non-saturable loss	A <sub>ns</sub> = 3 %
Saturation fluence	$\Phi_{sat}$ = 45 µJ/cm <sup>2</sup>
Relaxation time constant	τ ~ 1 ps
Damage threshold	$\Phi$ = 1.2 mJ/cm <sup>2</sup>
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 $\mathbf{x}$ denotes the type of mounting as follows:	
$\mathbf{x} = 0$	unmounted
<b>x</b> = 12.7 g	glued on a gold plated Cu-cylinder with 12.7 mm $\emptyset$

x = 12.7  g	glued on a gold plated Cu-cylinder with 12.7 mm $\oslash$
<b>x</b> = 25.4 g	glued on a gold plated Cu-cylinder with 25.4 mm $arnothing$
<b>x</b> = 12.7 s	soldered on a gold plated Cu-cylinder with 12.7 mm $arnothing$
<b>x</b> = 25.4 s	soldered on a gold plated Cu-cylinder with 25.4 mm $arnothing$
<b>x</b> = 25.0 w <b>x</b> = FC	soldered on a water cooled Cu-cylinder with 25.4 mm $\varnothing$ mounted on a 1 m monomode fiber cable with FC connector

Low intensity spectral reflectance

