# SAM™ Data Sheet SAM-1340-2-1ps-x, λ = 1340 nm

| | |
|---|---|
| Laser wavelength | λ = 1340 nm |
| High reflection band | λ = 1310 .. 1380 nm |
| Absorbance | $A_0$ = 2 % |
| Modulation depth | ΔR =1.2 % |
| Non-saturable loss | $A_{ns}$ = 0.8 % |
| Saturation fluence | $\Phi_{sat}$ = 70 µJ/cm$^2$ |
| Relaxation time constant | τ ~ 1 ps |
| Damage threshold | Φ = 1.5 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 ∅ |
| **x** = 25.4 g | glued on a gold plated Cu-cylinder with 25.4 mm ∅ |
| **x** = 12.7 s | soldered on a gold plated Cu-cylinder with 12.7 mm ∅ |
| **x** = 25.4 s | soldered on a gold plated Cu-cylinder with 25.4 mm ∅ |
| **x** = 25.0 w | soldered on a water cooled Cu-cylinder with 25.0 mm ∅ |
| **x** = FC | mounted on a 1 m monomode fiber cable with FC connector |

Low intensity spectral reflectance