# SAM™ Data Sheet SAM-1645-5-2ps-x, λ = 1645 nm

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|---|---|
| Laser wavelength | λ = 1645 nm |
| High reflection band | λ = 1580 .. 1720 nm |
| Absorbance | $A_0$ = 5 % |
| Modulation depth | ΔR = 3 % |
| Non-saturable loss | $A_{ns}$ = 2 % |
| Saturation fluence | $\Phi_{sat}$ = 70 µJ/cm$^2$ |
| Relaxation time constant | τ ~ 2 ps |
| Damage threshold | Φ = 2 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:

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|---|---|
| **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