

SAM™ Data Sheet SAM-1040-33-5ps-x, λ = 1040 nm

Laser wavelength	$\lambda = 1040 \text{ nm}$
High reflection band	λ = 1015 1060 nm
Absorbance	A ₀ = 33 %
Modulation depth	∆R = 19 %
Non-saturable loss	A _{ns} = 14 %
Saturation fluence	Φ_{sat} = 85 µJ/cm ²
Relaxation time constant	τ ~ 5 ps
Damage threshold	$\Phi = 2 \text{ mJ/cm}^2$
Chip area	4.0 mm x 4. 0mm; 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: $\mathbf{x} = 0$ unmounted	
x = 0 x = 12.7 g	glued on a gold plated Cu-cylinder with 12.7 mm \varnothing

x = 12.7 g	glued on a gold plated Cu-cylinder with 12.7 mm $arnothing$
x = 25.4 g	glued on a gold plated Cu-cylinder with 25.4 mm $arnothing$
x = 12.7 s	soldered on a gold plated Cu-cylinder with 12.7 mm $arnothing$
x = 25.4 s	soldered on a gold plated Cu-cylinder with 25.4 mm $arnothing$
x = FC	mounted on a 1 m monomode fiber cable with FC connector

Low Intensity Spectral Reflectance

