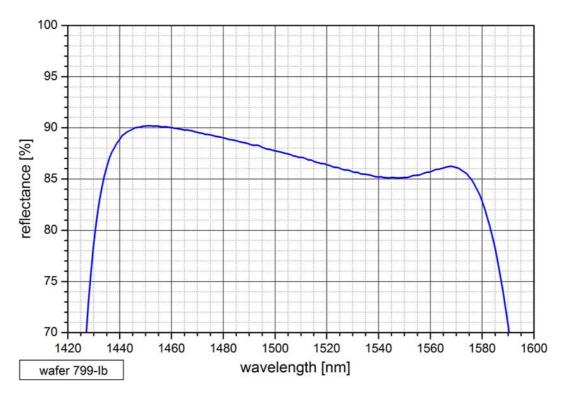


SAM™ Data Sheet SAM-1550-15-7ps-x, λ = 1550 nm

Laser wavelength	$\lambda = 1550 \text{ nm}$
High reflection band	λ = 1450 1570 nm
Absorbance	A ₀ = 15 %
Modulation depth	$\Delta R = 8 \%$
Non-saturable loss	A _{ns} = 7 %
Saturation fluence	$\Phi_{sat} = 60 \ \mu J/cm^2$
Relaxation time constant	τ = 7 ps
Damage threshold	$\Phi = 500 \ \mu \text{J/cm}^2$
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 $arnothing$
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 = 25.0 w	soldered on a water cooled Cu-cylinder with 25.0 mm $arnothing$
x = FC	mounted on a 1 m single mode fiber cable with FC connector

Low intensity spectral reflectance



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