1

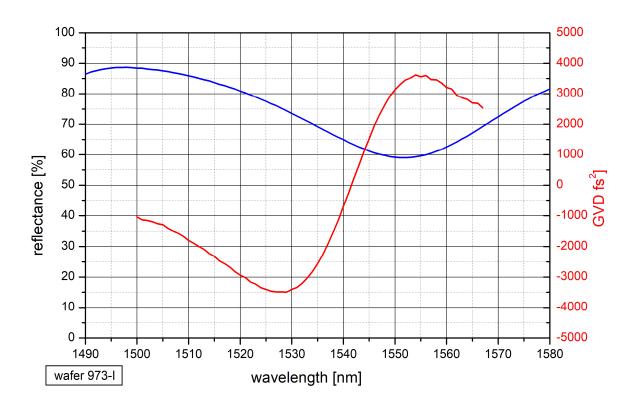


SAM™ Data Sheet SAM-1550-40-2ps-x, λ = 1550 nm

Laser wavelength	$\lambda = 1550 \text{ nm}$
High reflection band	$\lambda = 1500 1600 \text{ nm}$
C C	
Absorbance	$A_0 = 40 \%$
Modulation depth	∆R = 24 %
Non-saturable loss	A _{ns} = 16 %
Saturation fluence	Φ_{sat} = 40 µJ/cm ²
Relaxation time constant	τ = 2 ps
Damage threshold	Φ = 800 µJ/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:	
$\mathbf{x} = 0$	unmounted
x = 12.7 g	glued on a gold plated Cu-cylinder with 12.7 mm $arnothing$
x = 25.4 a	alued on a gold plated Cu-cylinder with 25.4 mm \emptyset

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 = 25.4 w	soldered on a water cooled Cu-cylinder with 25.4 mm \varnothing
x = FC	mounted on a 1 m monomode fiber cable with FC connector

Low intensity spectral reflectance and dispersion



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