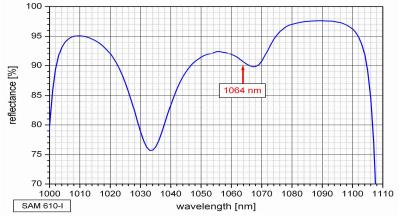


SAM™ Data Sheet SAM-1064-10-47ps-x, λ = 1064 nm for microchip laser Q-switching

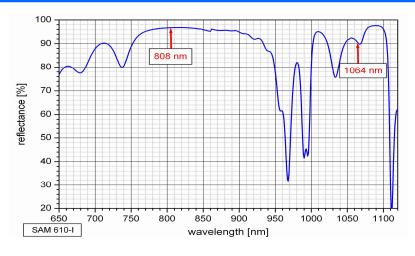
Laser wavelength	$\lambda = 1064 \text{ nm}$
High reflection band	λ = 1010 1100 nm
Reflectance at 808 nm	R ₈₀₈ = 96 %
Absorbance	A ₀ =10 %
Modulation depth	ΔR = 6 %
Non-saturable loss	A _{ns} = 4 %
Saturation fluence	Φ_{sat} = 50 µJ/cm ²
Relaxation time constant	τ ~ 47 ps
Damage threshold	Φ = 2.5 mJ/cm ²
Chip area	4.0 mm x 4.0 mm; other dimensions on request
Chip thickness	450 μm
Dielectric coating	HR @ 808 nm and AR @ 1064 nm
Mounting option x denotes the type of mounting as follows: $\mathbf{x} = 0$ unmounted	

$\mathbf{X} = 0$	unmounted
x = 12.7 g	glued on a copper heat sink with 12.7 mm $arnothing$
x = 25.4 g	glued on a copper heat sink with 25.4 mm $arnothing$
x = 12.7 s	soldered on a copper heat sink with 12.7 mm $arnothing$
x = 25.4 s	soldered on a copper heat sink with 25.4 mm $arnothing$
x = 25.4 w	soldered on a water cooled copper heat sink with 25.4 mm $arnothing$
x = FC	mounted on a 1 m monomode fiber cable with FC connector

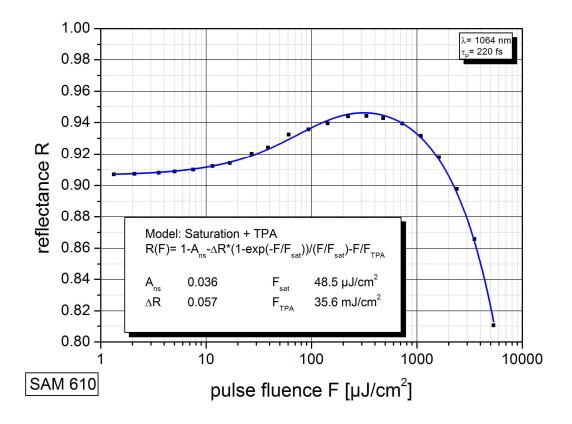
Low intensity spectral reflectance







Saturation measurement



3



