

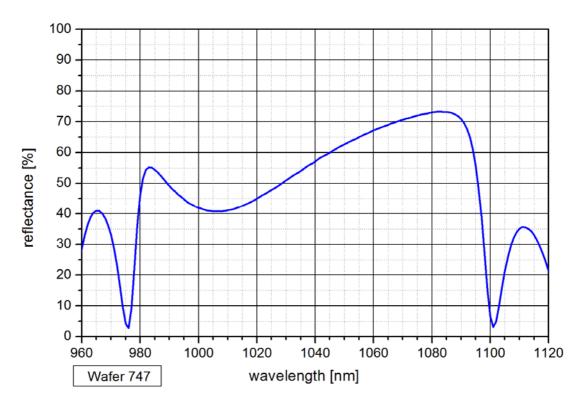
SAM™ Data Sheet SAM-1064-31-1ps-x, λ = 1040 nm

Laser wavelength		$\lambda = 1064$ nm
High reflection band ($R > 40\%$)		λ = 990 1080 nm
Absorbance		A ₀ = 31 %
Modulation depth		ΔR = 18 %
Non-saturable loss		A _{ns} = 13 %
Saturation fluence		Φ_{sat} = 70 µJ/cm ²
Relaxation time constant		τ ~ 1 ps
Damage threshold		$\Phi = 1.5 \text{ mJ/cm}^2$
Chip area		4 mm x 4 mm; other dimensions on request
Chip thickness		450 µm
Protection		the SAM is protected with a dielectric front layer
Mounting option \mathbf{x} denotes the type of mounting as follows:		
	x = 0	unmounted
	x = 12.7 g	glued on a copper heat sink with 12.7 mm \varnothing
	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 \varnothing
	x = 25.4 s	soldered on a copper heat sink with 25.4 mm \varnothing

x = 25.0 w	soldered on a water cooled copper heat sink with 25.0 mm \varnothing

x = FC mounted on a 1 m single mode fiber with FC connector

Low intensity spectral reflectance and dispersion



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