1

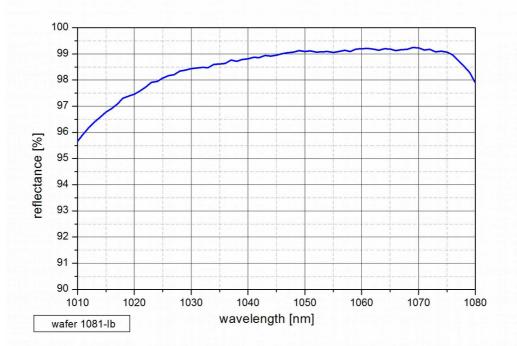


SAM™ Data Sheet SAM-1040-1.2-2ps-flat-x, λ = 1040 nm

Super flat SAM surface for large optical beam diameter in high power oscillators like thin disc laser

Laser wavelength		λ = 1040 nm
High reflection band		λ = 1020 1070 nm
Absorbance		A ₀ = 1.2 %
Modulation depth		∆R = 0.7 %
Non-saturable loss		A _{ns} = 0.5 %
Saturation fluence		Φ_{sat} = 110 µJ/cm ²
Relaxation time constant		τ ~ 2 ps
Damage threshold		Φ_d = 5 mJ/cm ²
Surface radius of curvature		r > 50 m, typically 80 – 100 m
Chip area		8 mm x 8 mm; other dimensions on request
Chip thickness		1.5 mm
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 x = 25.4 g x = 12.7 s x = 25.4 s	glued on a gold plated Cu-cylinder with 12.7 mm \emptyset glued on a gold plated Cu-cylinder with 25.4 mm \emptyset soldered on a gold plated Cu-cylinder with 12.7 mm \emptyset soldered on a gold plated Cu-cylinder with 25.4 mm \emptyset

x = 25.4 wsoldered on a water cooled Cu-cylinder with 25.4 mm \varnothing Low intensity spectral reflectance



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