

Data sheet SA-1030-34-3ps-x, λ = 1030 nm SA – Saturable Absorber in transmission

Laser wavelength		λ = 1000 nm 1040 nm
Absorptance		A ₀ = 34 %
Modulation depth		ΔT = 20 %
Non-saturable loss		A _{ns} = 14 %
Saturation fluence		Φ_{sat} = 300 µJ/cm ²
Pulse damage threshold		Φ = 1.2 mJ/cm ²
Relaxation time constant		τ ~ 3 ps
Chip area		5mm x 5mm; other dimensions on request
Chip thickness		450 μm; semi-insulating GaAs
Front side protection		AR coating for 1030 nm
Back side coating		the SA back side is polished and antireflection coated for 1030 nm
SA-1040-34-3p	x = 0 x = 12.7 g x = 25.4 g	denotes the type of mounting as follows: unmounted chip 5.0mm x 5.0mm glued on a copper cylinder with 12.7 mm \oslash and 4 mm \oslash center hole glued on a copper cylinder with 25.4 mm \oslash and 4 mm \oslash center hole

Spectral low intensity transmittance and absorptance

