SAM™ – saturable absorber mirror

BATOP optoelectronics

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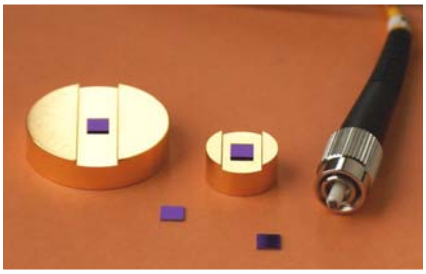
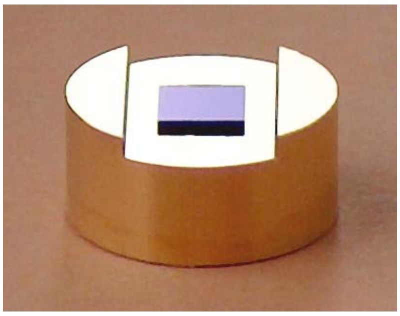
Product list

- for passive mode-locking of solid state, fiber or microchip lasers

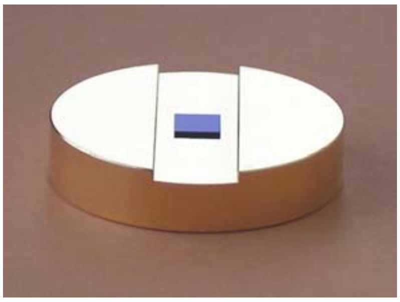
SAM 940	laser wavelength	λ = 940 nm
	high reflection band (R>99%)	λ = 910 - 990 nm
	absorption	A_0 = 2 - 30 %
	relaxation time	τ ~ 1 ps
SAM 980	laser wavelength	λ = 980 nm
	high reflection band (R>99%)	λ = 940 – 1000 nm
	absorption	A_0 = 2 - 50 %
	relaxation time	τ ~ 500 fs
SAM 1040	laser wavelength	λ = 1040 nm
	high reflection band (R>99%)	λ = 1000 .. 1080 nm
	absorption	A_0 = 0.7 - 65 %
	relaxation time	τ ~ 500 fs – 10 ps
SAM 1064	laser wavelength	λ = 1064 nm
	high reflection band (R>99%)	λ = 1020 .. 1110 nm
	absorption	A_0 = 0.5 - 70 %
	relaxation time	τ ~ 500 fs - 27 ps
SAM 1150	laser wavelength	λ = 1150 nm
	high reflection band (R>99%)	λ = 1110 .. 1200 nm
	absorption	A_0 = 3 - 6 %
	relaxation time	τ ~ 500 fs
SAM 1300	laser wavelength	λ = 1300 nm
	high reflection band (R>99%)	λ = 1220 .. 1320 nm
	absorption	A_0 = 4 - 12 %
	relaxation time	τ ~ 10 ps
SAM 1340	laser wavelength	λ = 1340 nm
	high reflection band (R>99%)	λ = 1310 .. 1370 nm
	absorption	A_0 = 1 - 15 %
	relaxation time	τ ~ 1 ps
SAM 1510	laser wavelength	λ = 1510 nm
	high reflection band (R>99%)	λ = 1470 .. 1570 nm
	absorption	A_0 = 6 - 11 %
	relaxation time	τ ~ 10 ps
SAM 1550	laser wavelength	λ = 1550 nm
	high reflection band (R>99%)	λ = 1500 .. 1600 nm
	absorption	A_0 = 1 - 50 %
	relaxation time	τ = 2 - 12 ps



mounting types



12.7 mm ∅ - (1/2" ∅) - Cu-Mount

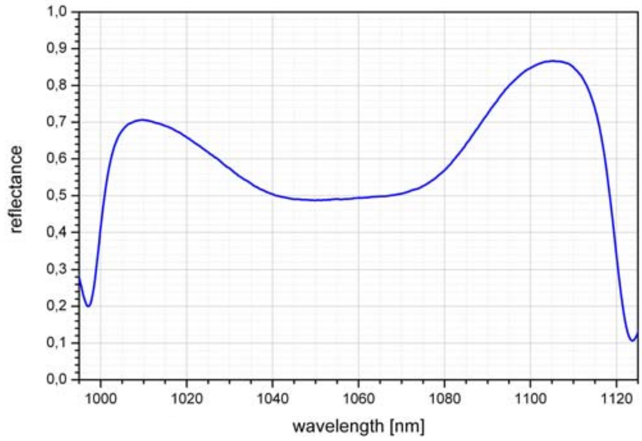


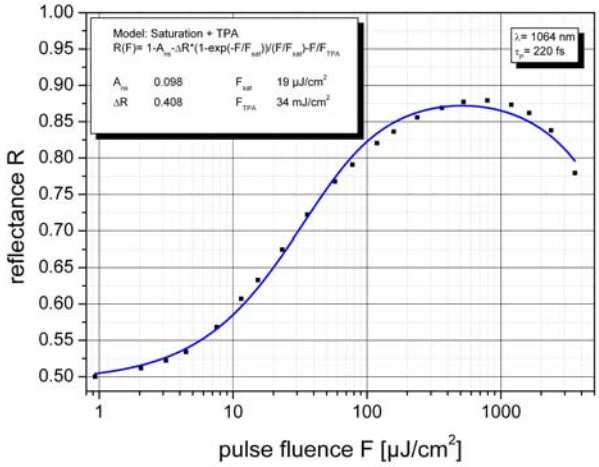
25.4 mm ∅ - (1" ∅) - Cu-Mount

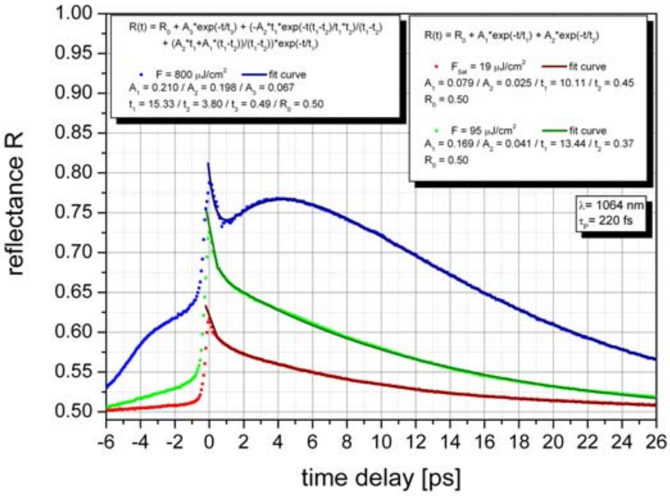
fiber coupled SAM

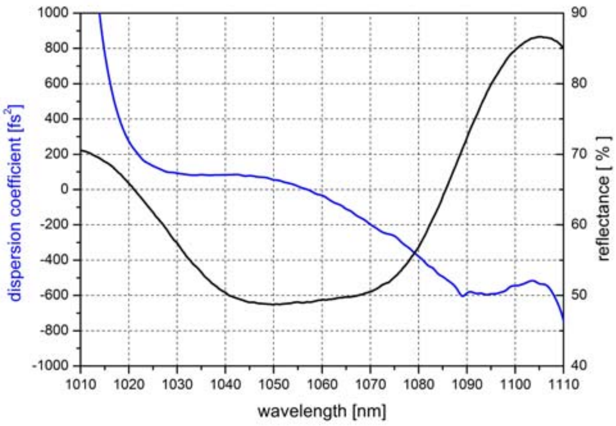
For detailed informations please visit http://www.batop.de / Other wavelengths and parameters on request.

SAM-1064-50-X-12ps







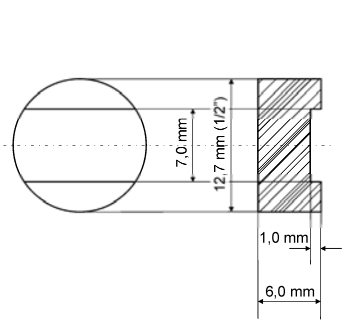


Chip area: 1 mm x 1 mm, 1.3 mm x 1.3 mm or 4 mm x 4 mm (other on request)

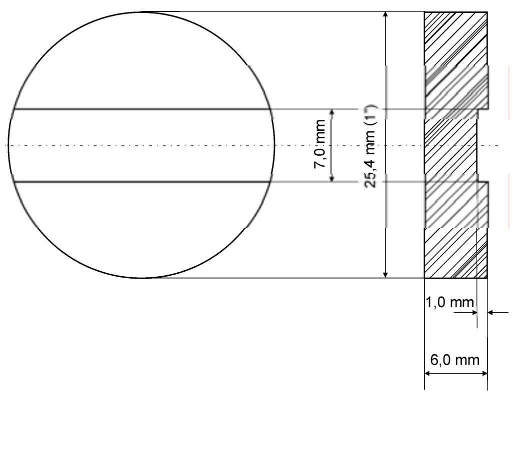
Chip thickness: 400 µm (other on request)

Mount:
- unmounted
- 12.7 mm ∅ (1/2" ∅)
- 25.0 mm ∅
- 25.4 mm ∅ (1" ∅)
- fiber coupled (SMF, PM)

Cu-Mount ∅ 12.7 mm:



Cu-Mount ∅ 25.4 mm:



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