

# SAMs - Saturable Absorber Mirrors

## SAM product list

Wavelength region	810 nm ... 860 nm:	820 nm   850 nm
Wavelength region	910 nm ... 990 nm:	940 nm   980 nm
Wavelength region	1020 nm ... 1110 nm:	1045 nm   1064 nm

## Growth of saturable absorber mirrors (SAMs)

We grow for you under special growth conditions high quality Bragg-mirrors with low temperature GaAs (LTGaAs) or InGaAs films on GaAs wafers. With our patented semi-resonant design we meet the requirements of different passively mode-locked laser applications in the picosecond and femtosecond region. The saturable absorptance of the fast response films of LTGaAs can be adjusted with our design in a wide region.

As we seek interested buyers for the short pulse laser business, we will continue to fully support the needs of our customers and meet our commitments to them.

## Chip sizes for SAMs and mounting

We cut pieces with custom sizes. We offer also mounting of SAMs on heat sinks or special holders. The wafer can be back thinned up to 100  $\mu\text{m}$  to improve the thermal contact to the heat sink.

## Parameters

	available values	standard
center wavelength:	from 800 nm up to 2000 nm	940, 980, 1045, 1064 nm
saturable losses:	from 0.5 % up to 10 %	1, 2, 3, 4, 6, 8, 10 %
nonsaturable losses:	< 0.3 %	0.2 %
chip area:	2 mm x 2 mm or larger	5 mm x 5 mm
chip thickness:	from 150 $\mu\text{m}$ up to 350 $\mu\text{m}$	350 $\mu\text{m}$
heat sink:	customized parameters	Cu-cylinder 1/2" , 1"



光技術をサポートする

**株式会社オプトサイエンス**

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