



## Product Overview

### Application:

- Passive mode-locking
- Q-switching

BATOP GmbH

Stockholmer Strasse 14

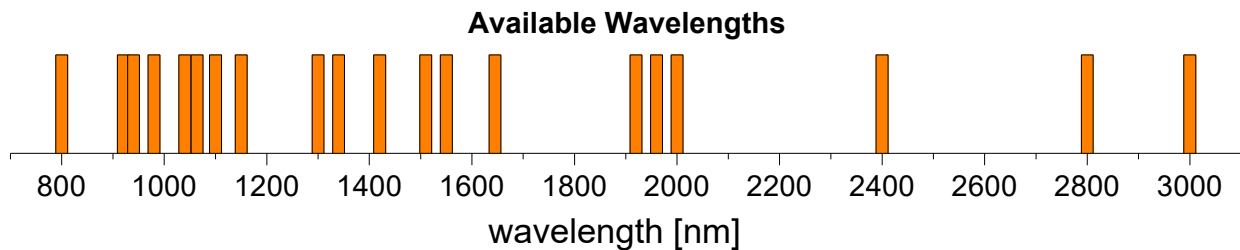
07747 Jena

Germany

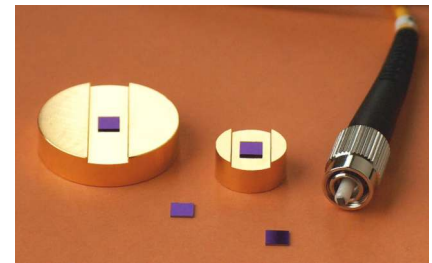
Phone: +49 3641 634009 - 0

URL: <http://www.batop.de>

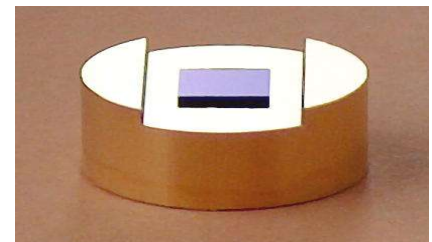
e-mail: [info@batop.de](mailto:info@batop.de)



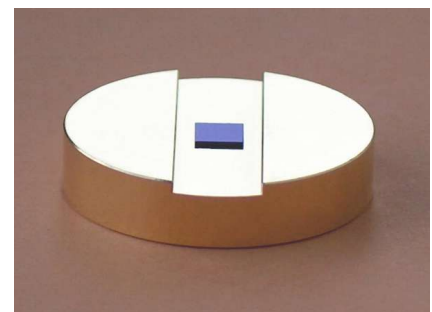
<b>SAM 800</b>	Laser wavelength Saturable absorption Relaxation time	$\lambda = 780 - 830 \text{ nm}$ $A_0 = 1 - 32 \%$ $\tau = 1 - 5 \text{ ps}$
<b>SAM 920</b>	Laser wavelength Saturable absorption Relaxation time	$\lambda = 890 - 950 \text{ nm}$ $A_0 = 20 - 45 \%$ $\tau = 0.5 - 3 \text{ ps}$
<b>SAM 940</b>	Laser wavelength Saturable absorption Relaxation time	$\lambda = 900 - 990 \text{ nm}$ $A_0 = 4 - 68 \%$ $\tau = 1 / 2 \text{ ps}$
<b>SAM 980</b>	Laser wavelength Saturable absorption Relaxation time	$\lambda = 940 - 1020 \text{ nm}$ $A_0 = 3 - 70 \%$ $\tau = 500 \text{ fs} / 1 \text{ ps}$
<b>SAM 1040</b>	Laser wavelength Saturable absorption Relaxation time	$\lambda = 990 .. 1070 \text{ nm}$ $A_0 = 1 - 65 \%$ $\tau = 500 \text{ fs} - 30 \text{ ps}$
<b>SAM 1064</b>	Laser wavelength Saturable absorption Relaxation time	$\lambda = 1030 .. 1100 \text{ nm}$ $A_0 = 0.6 - 70 \%$ $\tau = 500 \text{ fs} - 240 \text{ ps}$
<b>SAM 1100</b>	Laser wavelength Saturable absorption Relaxation time	$\lambda = 1070 .. 1120 \text{ nm}$ $A_0 = 30 - 90 \%$ $\tau = 500 \text{ fs}$
<b>SAM 1150</b>	Laser wavelength Saturable absorption Relaxation time	$\lambda = 1100 .. 1200 \text{ nm}$ $A_0 = 3 - 32 \%$ $\tau = 500 \text{ fs} / 1 \text{ ps}$



Mounting Options

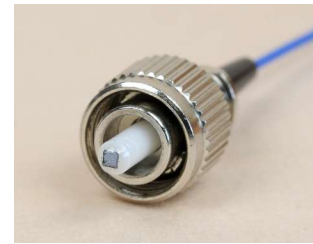


12.7 mm  $\varnothing$  - (1/2"  $\varnothing$ ) - Cu-Mount



25.4 mm  $\varnothing$  - (1"  $\varnothing$ ) - Cu-Mount

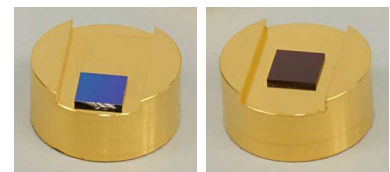
<b>SAM 1300</b>	Laser wavelength Saturable absorption Relaxation time	$\lambda = 1230 \dots 1330 \text{ nm}$ $A_0 = 4 - 12 \%$ $\tau = 10 \text{ ps}$
<b>SAM 1340</b>	Laser wavelength Saturable absorption Relaxation time	$\lambda = 1310 \dots 1370 \text{ nm}$ $A_0 = 1 - 15 \%$ $\tau = 1 \text{ ps}$
<b>SAM 1420</b>	Laser wavelength Saturable absorption Relaxation time	$\lambda = 1360 \dots 1460 \text{ nm}$ $A_0 = 1 - 4 \%$ $\tau = 10 \text{ ps}$
<b>SAM 1510</b>	Laser wavelength Saturable absorption Relaxation time	$\lambda = 1470 \dots 1570 \text{ nm}$ $A_0 = 4 - 23 \%$ $\tau = 2 \text{ ps} / 10 \text{ ps}$
<b>SAM 1550</b>	Laser wavelength Saturable absorption Relaxation time	$\lambda = 1500 \dots 1600 \text{ nm}$ $A_0 = 3 - 55 \%$ $\tau = 1.5 - 18 \text{ ps}$
<b>SAM 1645</b>	Laser wavelength Saturable absorption Relaxation time	$\lambda = 1560 \dots 1720 \text{ nm}$ $A_0 = 2 - 50 \%$ $\tau = 2 \text{ ps}$
<b>SAM 2000</b>	Laser wavelength Saturable absorption Relaxation time	$\lambda = 1890 \dots 2050 \text{ nm}$ $A_0 = 2 - 54 \%$ $\tau = 10 \text{ ps} - 40 \text{ ps}$
<b>SAM 2400</b>	Laser wavelength Saturable absorption Relaxation time	$\lambda = 2300 \dots 2600 \text{ nm}$ $A_0 = 1 \%$ / $1.5 \%$ $\tau = 10 \text{ ps}$
<b>SAM 2800</b>	Laser wavelength Saturable absorption Relaxation time	$\lambda = 2700 \dots 2900 \text{ nm}$ $A_0 = 14 \%$ - $34 \%$ $\tau = 10 \text{ ps}$
<b>SAM 3000</b>	Laser wavelength Saturable absorption Relaxation time	$\lambda = 2500 \dots 3100 \text{ nm}$ $A_0 = 9 - 33 \%$ $\tau = 10 \text{ ps}$



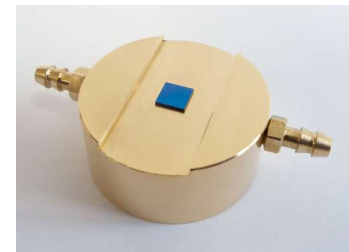
Fiber coupled SAM



Fiber mount FM1.3



Edge  
Center  
mounting



Water-cooled 25.0 mm  $\varnothing$  Cu-mount

Chip area: 1.3 mm x 1.3 mm, 4 mm x 4 mm, 8 mm x 8 mm  
Chip thickness: (other dimensions on request)  
Mounting: 450  $\mu\text{m}$

- Unmounted
- Glued or soldered on:
  - 12.7 mm  $\varnothing$  (1/2"  $\varnothing$ ) Cu-mount
  - 25.0 mm  $\varnothing$  Cu-mount
  - 25.4 mm  $\varnothing$  (1"  $\varnothing$ ) Cu-mount
- Soldered on a water-cooled 25.0 mm  $\varnothing$  Cu-mount
- Thin film soldered on a water-cooled Cu-mount
- Fiber coupled (SMF, PM fiber) / Fiber mount FM1.3
- Mounting on custom mounts on request



Batch of 4 chips, 1.3 mm x 1.3 mm

For other wavelengths and parameters please ask!