

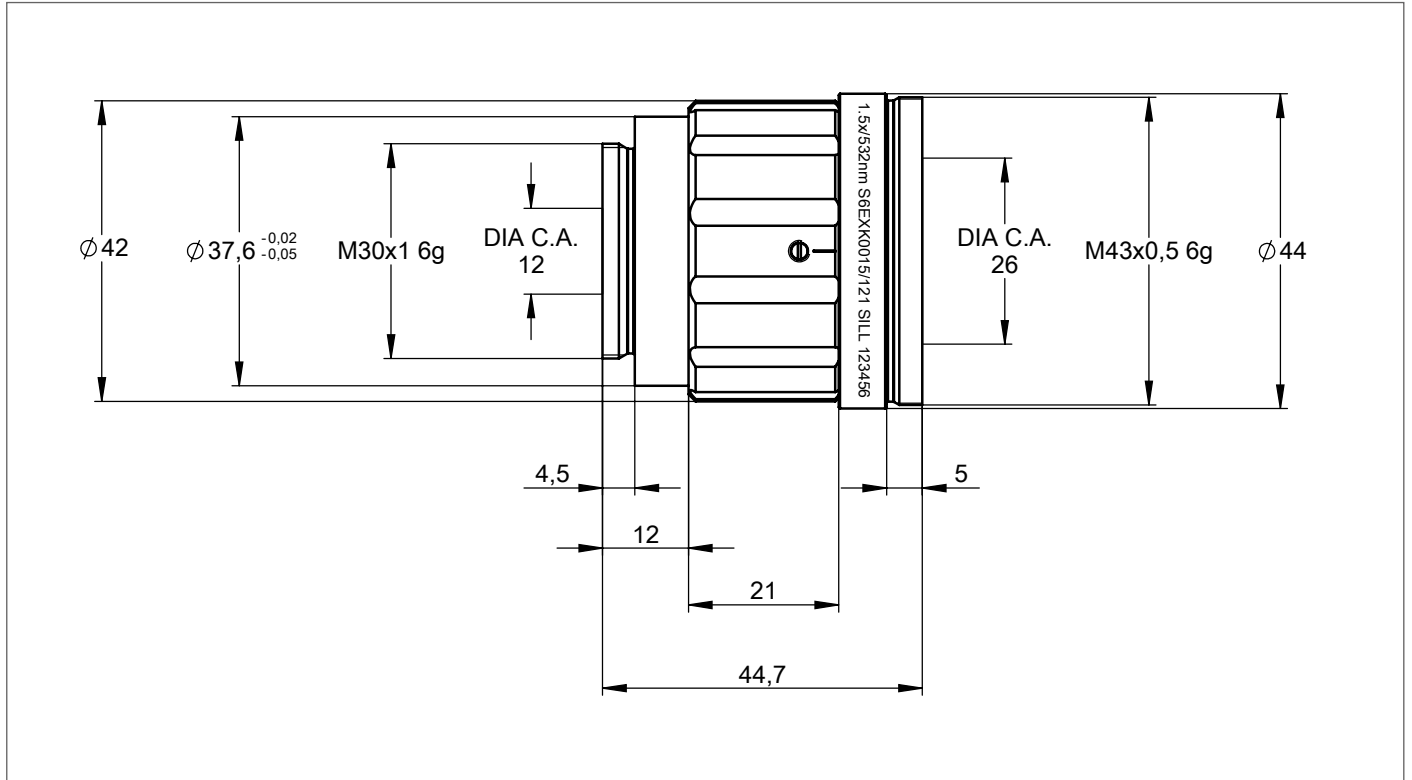
# DATA SHEET

## S6EXK0015-292

BEAMEXPANDER  
MAGNIFICATION 1.5  
FOR 515 - 545 nm  
FUSED SILICA



### OUTLINE DRAWING



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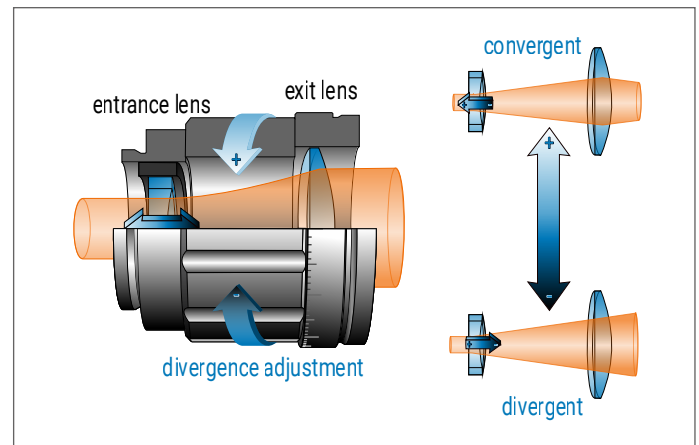
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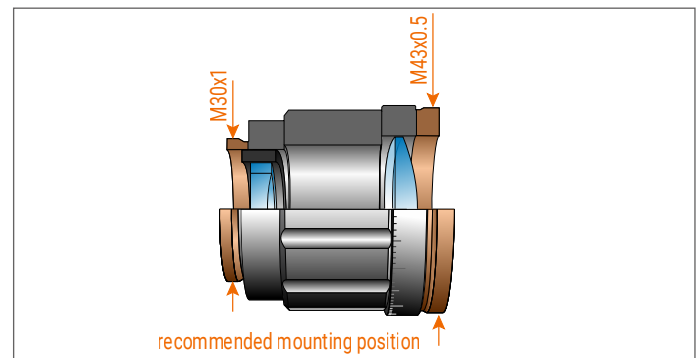
## SPECIFICATIONS

|                                       |   |
|---------------------------------------|---|
| article number                        | S6EXK0015-292                               |
| design wavelength [nm]                | 532   |
| magnification factor                  | 1.5   |
| divergence adjustable                 | yes   |
| optical principle                     | Galilei<br>(no internal focus)              |
| pointing stability [mrad]             | < 1   |
| clear input aperture [mm]             | 12.0  |
| clear output aperture [mm]            | 26.0  |
| recommended beam-Ø [mm] <sup>1)</sup> | 10.0  |
| total number of lenses                | 2   |
| total transmission [%]                | > 99  |
| lens material                         | fused silica                                |
| LIDT (coating) [J/cm <sup>2</sup> ]   | 2.5 J/cm <sup>2</sup> per 1ns pulse at 50Hz |
| SP and USP usable                     | yes   |
| SP and USP usable,<br>reversed usage  | yes   |
| mounting thread                       | M30x1                                       |
| weight [kg]                           | 0.2   |
| accessory                             | S6MEC0127 - adapter M30x1 to<br>C-mount     |

## DIVERGENCE ADJUSTMENT



## MOUNTING POSITIONS



## REMARKS

<sup>1)</sup>clipped at  $1/e^2$ ; wavefront error on axis (PV) <  $\lambda/10$  (value provided by design)

magnification (reversed mode) = 1 / magnification (regular mode)

divergence adjustment = 0 → collimated input beam results in collimated output beam

maximum divergence adjustment is  $\pm 3$  mm

RoHS compliant

length at divergence setting „0“ stated in the drawing - length extension of max. 3 mm is possible

## BACK REFLECTION POSITION

|                                  |  |
|----------------------------------|--|
| back reflections [mm]            |  |
| 9.5                              |  |
| back reflections<br>reverse [mm] |  |
| 31.62                            |  |
| 0.00                             |  |
| 0.00                             |  |

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