

## a|Low-NA

Available in a focal length-diameter-ratio ( $f/d$ ) of 2.0 and ideally suited for light collection and laser applications. Some diameters are also available with high-precision mountings.

### Key Benefits:

- = Outstanding surface form deviation of  $RMS_i \leq 0.5 \mu\text{m}$
- = Long focal length ( $f/d$  2.0)
- = Off-the-shelf delivery
- = RoHS compliance
- = Available with 3 standard coatings<sup>1</sup>:
  - A:  $R_{MAX} < 1.0\%$ ,  $R_{AVG} \leq 0.4\%$ , 400-600 nm, AOI=0°
  - B:  $R_{MAX} < 1.0\%$ ,  $R_{AVG} \leq 0.4\%$ , 600-1050 nm, AOI=0°
  - C:  $R_{MAX} < 1.0\%$ ,  $R_{AVG} \leq 0.4\%$ , 1000-1600 nm, AOI=0°



Unmounted Asphere

### Lens description

Surface Form Deviation ( $RMS_i$ ) <sup>2</sup>	[ $\mu\text{m}$ ]	$\leq 0.5$
EFL Tolerance	[%]	$\leq 0.1$
Surface Imperfections	[Scratch/Dig]	60 - 40
Diameter Tolerance	[mm]	+0/-0.05
Center Thickness Tolerance <sup>3</sup>	[mm]	+0.05
Clear Aperture	[%]	$\geq 90$



Mounted Asphere

Product Code	$\emptyset$ [mm]	EFL [mm]	NA	$f/d$	WD [mm]	$\lambda_{\text{Design}}$ [nm]	Material
ALL12-25	12.5	25	0.23	2.0	22.4	780	N-BK7
ALL25-50	25	50	0.23	2.0	46.0	780	N-BK7
ALL50-100	50	100	0.24	2.0	93.4	780	N-BK7
ALL75-60	75	60	0.62	0.8	36.5	780	N-BK7
ALL75-150	75	150	0.23	2.0	140.1	780	N-BK7
ALL100-100	100	100	0.48	1.0	76.2	780	N-BK7
ALL100-200	100	200	0.23	2.0	187.4	780	N-BK7

<sup>1</sup> Custom coatings available upon request. | <sup>2</sup> For lenses ALL75-60, ALL75-150, ALL100-100, ALL100-200 please consider a maximum value of 0.75. RMS, corresponding to ISO 10110-5 (surface form tolerances). | <sup>3</sup> For lenses ALL50-100, ALL100-200 please consider a center thickness tolerance of  $\pm 0.1$ . For lenses ALL75-60, ALL100-100 please consider a center thickness tolerance of  $\pm 0.15$  | General: Technical parameters and prices are subject to change without prior notice.

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