

Aspheres

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 $RMS_i \leq 0.5 \mu m$
- = Long focal length (f/d 2.0)
- = Off-the-shelf delivery
- = RoHS compliance
- = Available with 3 standard coatings¹:
 - 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: $R_{MAX} < 1.0\%$, $R_{AVG} \leq 0.4\%$, 1000-1500 nm, AOI=0°



Unmounted Asphere

Lens description

Surface Form Deviation (RMS) ²	[μm]	≤ 0.5
EFL Tolerance	[%]	≤ 0.1
Surface Imperfections	[Scratch/Dig]	60 - 40
Diameter Tolerance	[mm]	+0/-0.05
Center Thickness Tolerance ³	[mm]	+0.05
Clear Aperture	[%]	≥ 90



Mounted Asphere

Precision

Product Code	\emptyset	EFL	NA	f/d	WD	λ_{Design}	Material	RMSi	Wavefront RMS
	[mm]	[mm]			[mm]	[nm]		[μm]	[nm]
ALL12-25	12.5	25	0.23	2.0	22.4	780	N-BK7	≤ 0.5	≤ 255
ALL25-50	25	50	0.23	2.0	46.0	780	N-BK7	≤ 0.5	≤ 255
ALL50-100	50	100	0.24	2.0	93.4	780	N-BK7	≤ 0.5	≤ 255
ALL75-60	75	60	0.62	0.8	36.5	780	N-BK7	≤ 0.5	≤ 255
ALL75-150	75	150	0.23	2.0	140.1	780	N-BK7	≤ 0.5	≤ 255
ALL100-100	100	100	0.48	1.0	76.2	780	N-BK7	≤ 0.5	≤ 255
ALL100-200	100	200	0.23	2.0	187.4	780	N-BK7	≤ 0.5	≤ 255

Ultra

Product Code	\emptyset	EFL	NA	f/d	WD	λ_{Design}	Material	RMSi	Wavefront RMS
	[mm]	[mm]			[mm]	[nm]		[μm]	[nm]
ALL12-25	12.5	25	0.23	2.0	22.4	780	N-BK7	≤ 0.1	≤ 51
ALL25-50	25	50	0.23	2.0	46.0	780	N-BK7	≤ 0.1	≤ 51
ALL50-100	50	100	0.24	2.0	93.4	780	N-BK7	≤ 0.1	≤ 51
ALL75-60	75	60	0.62	0.8	36.5	780	N-BK7	≤ 0.1	≤ 51
ALL75-150	75	150	0.23	2.0	140.1	780	N-BK7	≤ 0.1	≤ 51
ALL100-100	100	100	0.48	1.0	76.2	780	N-BK7	≤ 0.1	≤ 51
ALL100-200	100	200	0.23	2.0	187.4	780	N-BK7	≤ 0.1	≤ 51

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

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