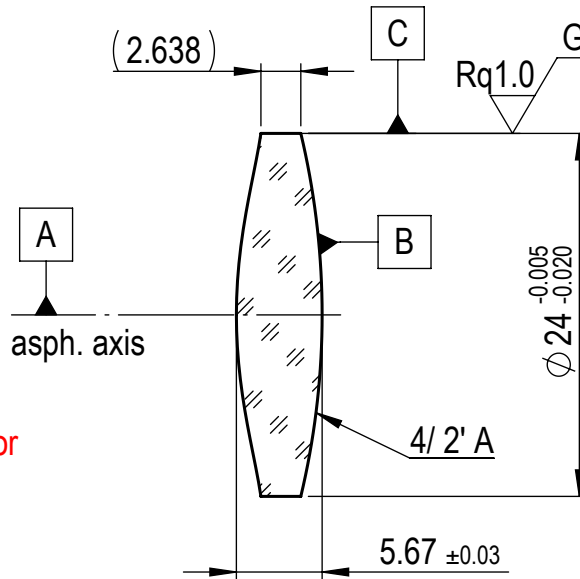


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Aspheric Base Radius	R	33.82	mm
Conic Constant	k	-1.18	-
4th Order Coefficient	A4	-1.5e-5	mm ⁽⁻³⁾
6th Order Coefficient	A6	-4.8e-8	mm ⁽⁻⁵⁾
8th Order Coefficient	A8	-9.3e-11	mm ⁽⁻⁷⁾

$$z(h) = \frac{\frac{h^2}{R}}{1 + \sqrt{1 - (1+k)\frac{h^2}{R^2}}} + \sum_{n=1}^N A_n \cdot h^n$$

h1 [mm]	z1 [mm]
0	0
1.2	0.021257
2.4	0.08463
3.6	0.188878
4.8	0.331743
6	0.509642
7.2	0.717184
8.4	0.946442
9.6	1.185919
10.8	1.419125
12	1.622636

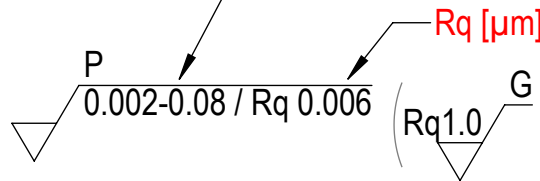


optional: spec of max. slope error

h [mm]	slope error
0 - 10	0.4 mrad
10 - 23	0.5 mrad

integration length: 1mm
increment: 0.1mm

wavelength "filter":
lower wavelength: 0.002mm
upper wavelength: 0.08mm



indicates that an index drop is considered in the design



Left surface			Material	Right surface		
R	aspheric	CX	Sumita K-PBK40(m)	R	51.8	CX
∅ _e	23.0		Δnd	±	∅ _e	22.5
∅ _{visible}	23.2		Δvd[%]	±	∅ _{visible}	22.8
Prot. chamfer	0.1		0/	-	Prot. chamfer	0.1
λ	91.005.91-094		1/	5x0.1	λ	-
3/	1365nm(546nm)		2/	1;1	3/	5(2) power and irregularity @546nm (equals to 1365nm(546nm))
4/	0.5' BC <small>centration relative to B and C</small>		Info		4/	-
5/	3x0.25		Alternative material		5/	3x0.25
-					-	
6/					6/	
-					-	

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Erstellt <i>Prepared</i>	05.05.2017	brt	Gewicht <i>Weight</i>	4.4 g	Benennung / <i>Description</i>	Blatt / Anz <i>Sheet / no. of</i>
Freigegeben <i>Approved</i>		-	Status <i>Status</i>	in Bearbeitung	Lens	1 / 1
Geändert <i>Modified</i>		-	Änderungs-Nr. <i>Revision no.</i>			Format <i>Format</i>
			Massstab / <i>Scale</i> 2:1		example aspherical - spherical	Version <i>Version</i>
Toleranzen und Angaben nach DIN ISO 10110 <i>Tolerances and details according to DIN ISO 10110</i>			www.fisba.com		Zeichnungs-Nr. / <i>Drawing no.</i>	- +
					D 6200	

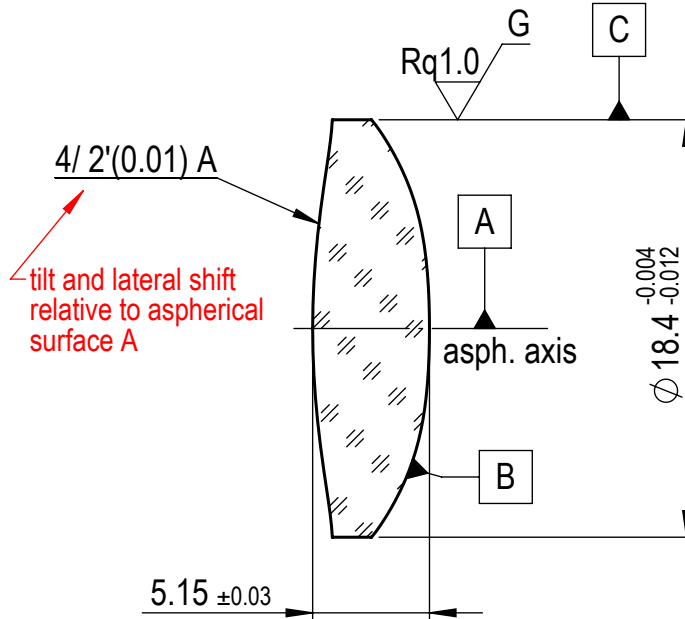
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Aspheric Base Radius	R	36.6	mm
Conic Constant	k	-5.67	-
4th Order Coefficient	A4	-2.8e-5	mm ⁽⁻³⁾
6th Order Coefficient	A6	5.7e-7	mm ⁽⁻⁵⁾
8th Order Coefficient	A8	-7.0e-9	mm ⁽⁻⁷⁾

Aspheric Base Radius	R	-36.23	mm
Conic Constant	k	12.88	-
4th Order Coefficient	A4	-2.2e-4	mm ⁽⁻³⁾
6th Order Coefficient	A6	5.1e-7	mm ⁽⁻⁵⁾
8th Order Coefficient	A8	9.3e-9	mm ⁽⁻⁷⁾

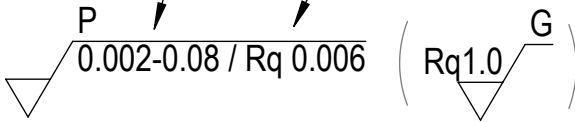
h1 [mm]	z1 [mm]
0	0
0.9	0.01104
1.8	0.043863
2.7	0.097678
3.6	0.171434
4.5	0.263996
5.4	0.373984
6.3	0.498811
7.2	0.632409
8.1	0.760939
9	0.855726

h2 [mm]	z2 [mm]
0	0
0.9	-0.011347
1.8	-0.047395
2.7	-0.114092
3.6	-0.221024
4.5	-0.380694
5.4	-0.607113
6.3	-0.913415
7.2	-1.308694
8.1	-1.796465
9	-2.39356



wavelength "filter":
lower wavelength: 0.002mm
upper wavelength: 0.08mm

Rq [µm]



indicates that an index drop is considered in the design

$$z(h) = \frac{\frac{h^2}{R}}{1 + \sqrt{1 - (1+k) \frac{h^2}{R^2}}} + \sum_{n=1}^N A_n \cdot h^n$$

Left surface			Material	Right surface		
R	aspheric	CX	Sumita K-PBK40(m)	R	aspheric	CX
∅ _e	15.9		Δnd	±	∅ _e	16.6
∅ _{visible}	16.5		Δvd[%]	±	∅ _{visible}	17.5
Prot. chamfer	0.1		0/	-	Prot. chamfer	0.1
λ	91.005.91-095		1/	-	λ	91.005.91-095
3/	1365nm(546nm)		2/	-	3/	1365nm(546nm)
4/	0.7' BC	centration relative to B and C * see note 1	Info		4/	-
5/	5x0.16; E0.15		Alternative material		5/	5x0.16; E0.15
-					-	
6/	-				6/	-
-					-	

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Erstellt <i>Prepared</i>	05.05.2017	brt	Gewicht <i>Weight</i>	2.3 g	Benennung / <i>Description</i>	Blatt / Anz <i>Sheet / no. of</i>
Freigegeben <i>Approved</i>		-	Status <i>Status</i>	in Bearbeitung	Lens	1 / 1
Geändert <i>Modified</i>		-	Änderungs-Nr. <i>Revision no.</i>			Format <i>Format</i>
			Massstab / <i>Scale</i> 3:1		example double asphere	Version <i>Version</i>
Toleranzen und Angaben nach DIN ISO 10110 <i>Tolerances and details according to DIN ISO 10110</i>			 www.fisba.com		Zeichnungs-Nr. / <i>Drawing no.</i>	-+
					D 6199	