

NOTES :

1. MATERIAL:H-ZBAF20/H-ZLAF50E/D-K9

2. INTERPRET OPTICAL TOLERANCES
PER ISO 10110

3. COAT R1 & R2 SURFACES AS FOLLOWS:

Rabs<0.5% AT 430-650nm

450nm T>96.1%(FAI check)

540nm T>96.7%(FAI check)

630nm T>96.7%(FAI check)

4. Coating area > CA+0.1mm

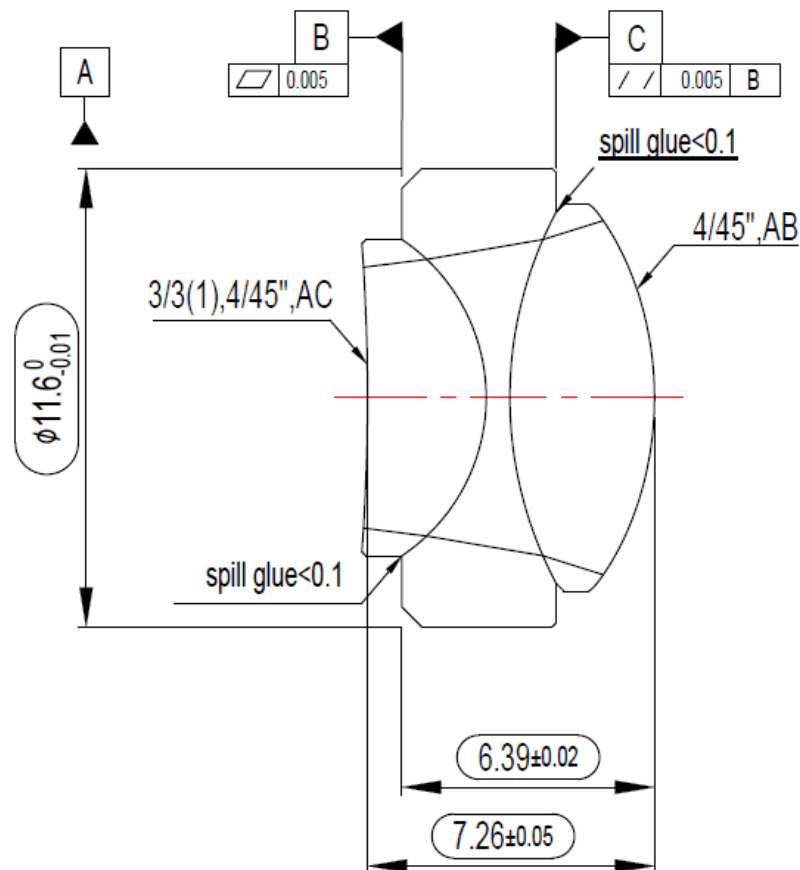
5. Coatings test methods follow ISO9211-4

Abrasion : degree of severity 04 x 1

Adhesion : degree of severity 03 x 3

6. SURFACE QUALITY:60-40 PER MIL-PRF-13830B

7.  The main inspection dimension

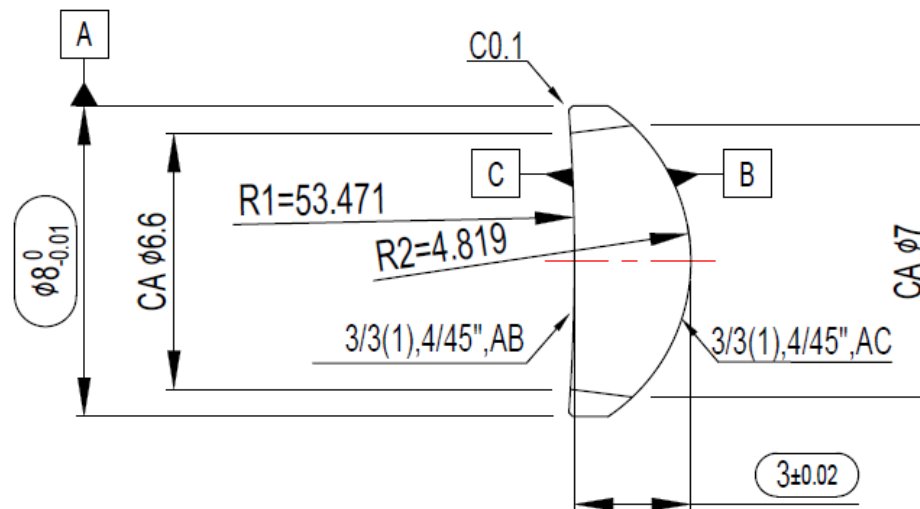


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Material:		Surface Finish:			TITLE: 11.6mm Dia., 7.26mm Thk. Achromatic Lens			
See note		See Note						
Scale:	Unit:	Size:	Sheet:					
free	mm	A4	1/1		Stock No.	1A008	Rev.	01

NOTES:

1. Material : H-ZBAF20
Nd: 1.701545±0.0003
Vd: 41.140848±0.5%
2. Interpret optical tolerance per ISO 10110
3. Coat R1 surface as follows :
Rabs < 0.5% AT 430-650nm
4. Coating area : R1 > CA+0.1mm
R2 no coating
5. Coatings test methods per ISO 9211-4
Abrasion : degree of severity 04 x 1
Adhesion : degree of severity 03 x 3
6. Surface quality 60-40 per MIL-PRF-13830B
7.  The main inspection dimension



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Material:		Surface Finish:			TITLE: 8mm Dia., 3mm Thk. Diverging Meniscus Lens			
See note		See Note						
Scale:	Unit:	Size:	Sheet:					
free	mm	A4	1/1	Stock No.	1A008	Rev.	01	

NOTES:

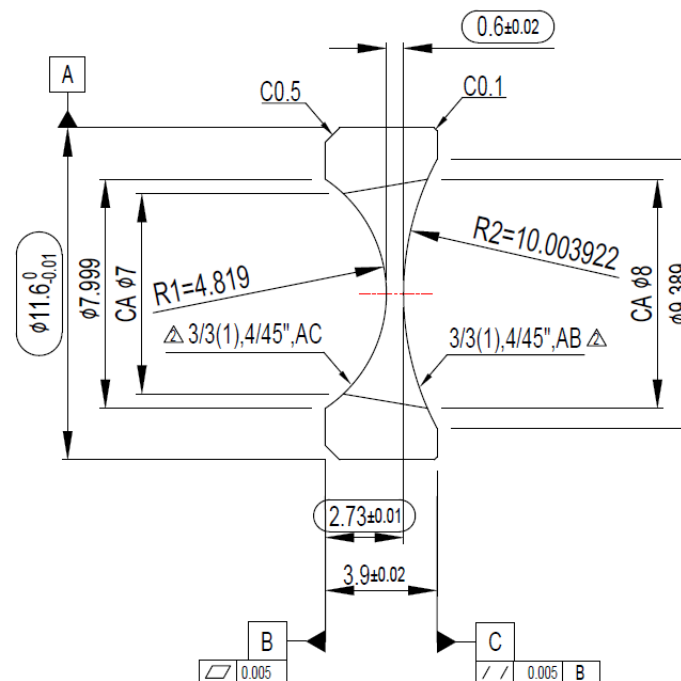
1. Material : H-ZLAF50E
Nd: 1.804009±0.0003
Vd: 46.567682±0.5%

2. Interpret optical tolerance per ISO 10110

3. R1 & R2 no coating

4. Surface quality 60-40 per MIL-PRF-13830B

5.  The main inspection dimension



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Material:		Surface Finish:			TITLE: 8mm Dia., 3mm Thk. Double-Concave Lens			
See note		See Note						
Scale:	Unit:	Size:	Sheet:					
free	mm	A4	1/1	Stock No.	1A008	Rev.	01	

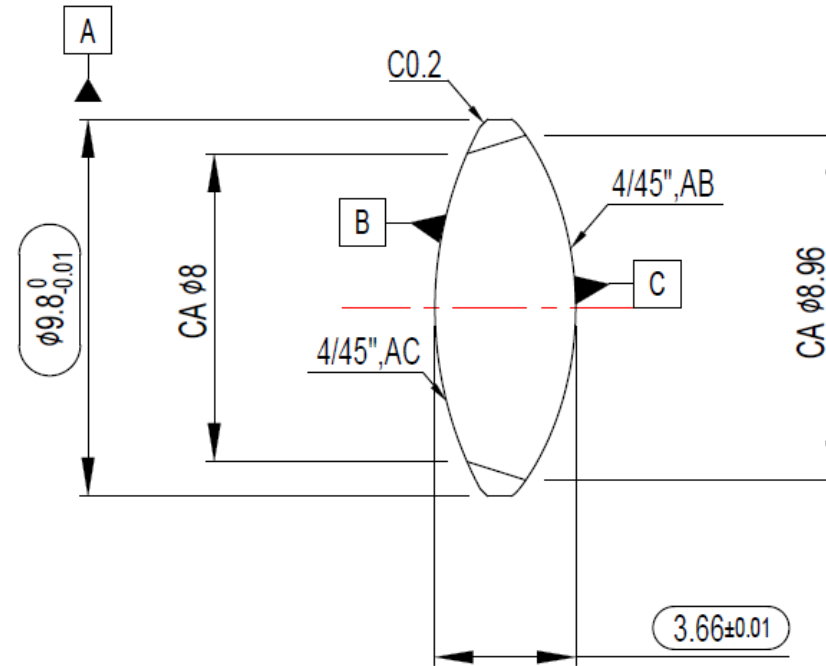
NOTES:

- MATERIAL: D-K9
Nd:1.51552±0.0005 ; Vd:64.05±0.8%
- INTERPRET OPTICAL TOLERANCES PER ISO 10110
- COAT R2 SURFACES AS FOLLOWS:
Rabs<0.5% AT 430-650nm
- Coating area : R1 no coating
R2 >CA+0.1mm
- Coatings test methods follow ISO9211-4
Abrasion : degree of severity 01 x 1
Adhesion : degree of severity 03 x 3
- SURFACE QUALITY:60-40 PER MIL-PRF-13830B
-  The main inspection dimension
- ASPHERICAL COEFFICIE

$$z = \frac{cy^2}{1+\sqrt{1-(1+K)c^2y^2}} + Ay^4 + By^6 + Cy^8 + Dy^{10} + Ey^{12} + Fy^{14} + Gy^{16}$$

ASPH	L7R1	L7R2
Radius	10.00392153	-8.74032331
Conic	0.00000000	2.01637265
4TH	0.00000000E+00	3.09237743E-04
6TH	0.00000000E+00	1.04040016E-05
8TH	0.00000000E+00	7.68621793E-09
10th	0.00000000E+00	-4.07694080E-08
12th	0.00000000E+00	8.91521181E-09
14th	0.00000000E+00	-5.27102082E-10
16th	0.00000000E+00	1.17516644E-11

Sag	L7R1	L7R2
0	0	0
0.6	0.018009	-0.020627
1.2	0.072233	-0.082910
1.8	0.163269	-0.188093
2.4	0.292153	-0.338507
3	0.460419	-0.538145
3.6	0.670195	-0.793732
4.2	0.924360	-1.118248
4.8	1.226767	-1.548046



9.SURFACE ACCURACY

Item	R1	R2
Accuracy P-V	<0.8um	<0.9um
Best Fitting P-V	<0.25um	<0.3um
AS	<0.2um	<0.2um
Roughness	<10nm	<10nm
Profile	U/N or N/U non-bendable	
Surface Decenter	< 5um	
Surface Tilt	< 60"	

Material:		Surface Finish:			TITLE: 9.8mm Dia., 3.66mm Thk. Double-Convex Lens			
See note		See Note						
Scale:	Unit:	Size:	Sheet:					
free	mm	A4	1/1	Stock No.	1A008	Rev.	01	

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