

NOTES:

1. MATERIAL:Q-FKH1S

Nd:1.49556±0.0005

Vd:80.84±0.8%

2. INTERPRET OPTICAL TOLERANCES PER ISO 10110

3. COAT TWO SURFACES AS FOLLOWS:

R(abs.)<0.5% AT 430-650nm

4. Coatings test methods follow ISO9211-4

Abrasion : degree of severity 04 x 1

Adhesion : degree of severity 03 x 3

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

Test in the darkroom with a 27W desk lamp

6. ASPHERICAL COEFFICIENT

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

ASPHERICAL DATA		
	R1	R2
R	23,25290938	-10,61041405
K	0.32474047	-1.14983244
A	-6.92444766E-05	8.31740371E-05
B	-1.22402057E-05	-9.82200449E-06
C	1.73045071E-06	1.23450521E-06
D	-1.23072771E-07	-8.37137061E-08
E	4.62956249E-09	3.00530602E-09
F	-8.84988657E-11	-5.48380284E-11
G	6.81018062E-13	4.03948486E-13

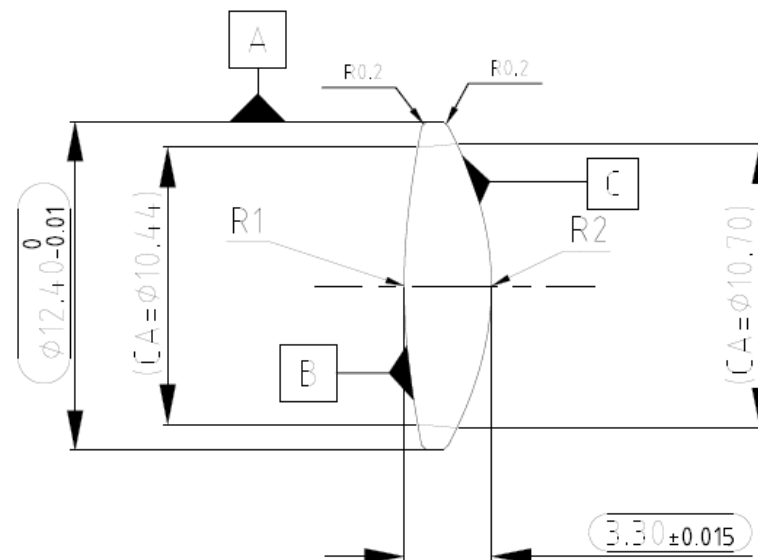
Sag(mm)		
	R1	R2
0	0	0
1.0	0.021436	-0.047033
2.0	0.084666	-0.187300
3.0	0.186224	-0.418764
4.0	0.320816	-0.738384
5.0	0.479630	-1.144571
6.0	0.659533	-1.631270
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7. SURFACE ACCURACY

Item	R1	R2
Design R	P-V <0.8um	<0.8um
	Profile U non-bendable	non-bendable
Best Fit R	P-V <0.3um	<0.3um
	Profile W bend once	M bend once
AS	<0.2um	<0.2um
Roughness	<10nm	<10nm
Surface Decenter	< 5um	
Surface Tilt	< 60"	
Decenter & Tilt	< 100"AC	< 100"AB

8. R1&R2 film shortage<0.6

9.  The main inspection dimension



SV 上陽光學
SUN YANG OPTICS

Material:	Surface Finish:		TITLE: 12.4mm Dia., 3.3mm Thk. Aspheric Lens		
See note	See Note				
Scale:	Unit:	Size:	Sheet:	Stock No.	Rev.
free	mm	A4	1/1	1G003	01