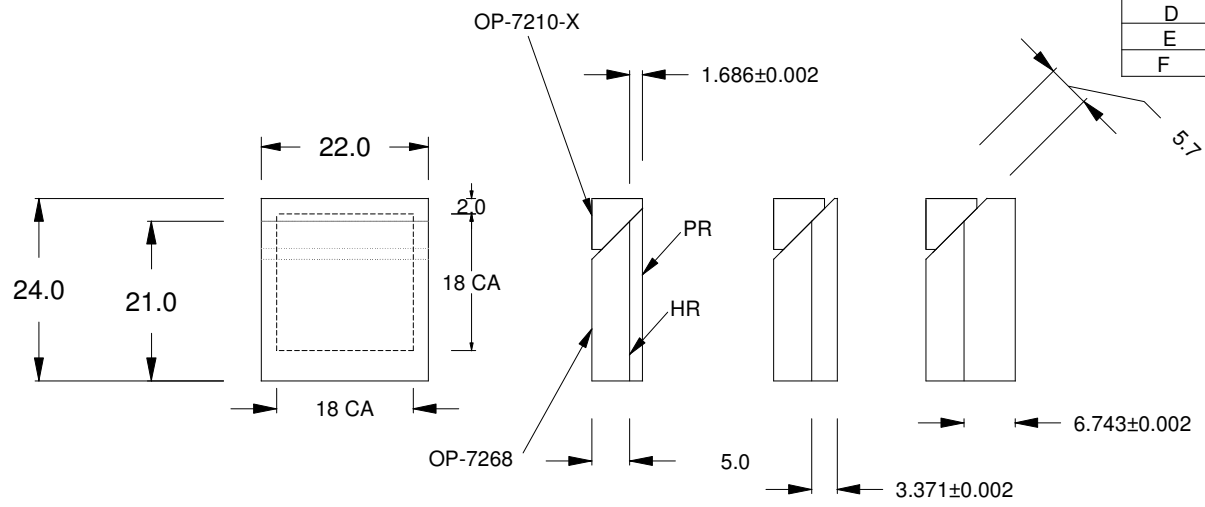


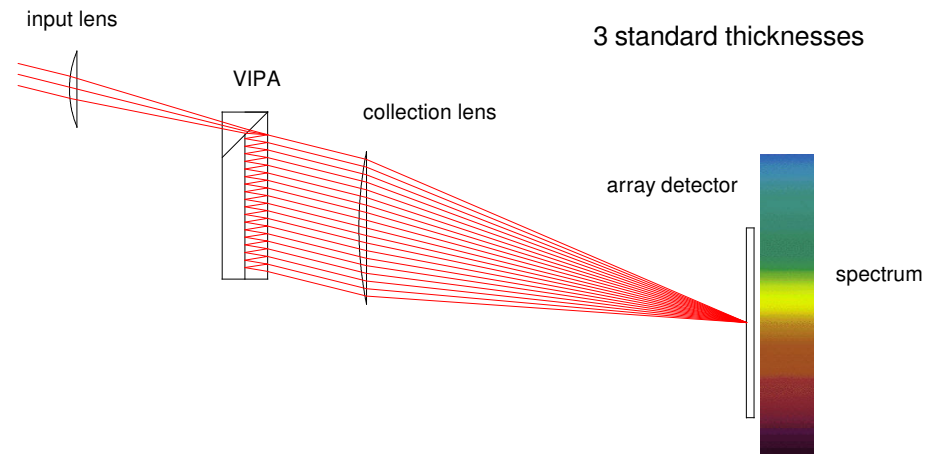
REVISIONS			
REV	REVISED PER	Date	Approved
A	first release	2013 Jun 13	IJM
B	CN 2557	2014 Feb 21	JHH
C	CN 2590	2014 March 27	JHH
D	CN 2626	2014 April 22	JHH
E	CN 2893	2015 March 2	JHH
F	CN 3115	2015 Sept 17	JHH



Standard Values*

Thickness (mm)	FSR (cm-1)
1.68 ± 0.01	2.00±0.02
3.37±0.03	1.00±0.01
6.74±0.06	0.500±0.005

Wavelength ranges	Finesse (minimum)
-1 415-500 nm	31
-2 500-600 nm	37
-3 600-725	44
-4 725-875	51
-5 875-1050	59
-6 1050-1260	67
-7 1260-1500	74
-8 1500-1700	82



3 standard thicknesses

Part Number is OP-6721- Thickness - Wavelength Range
 * Other values exist

Notes:

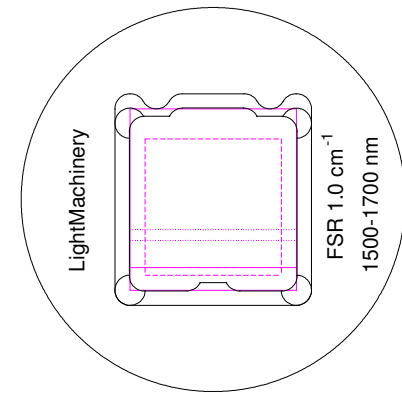
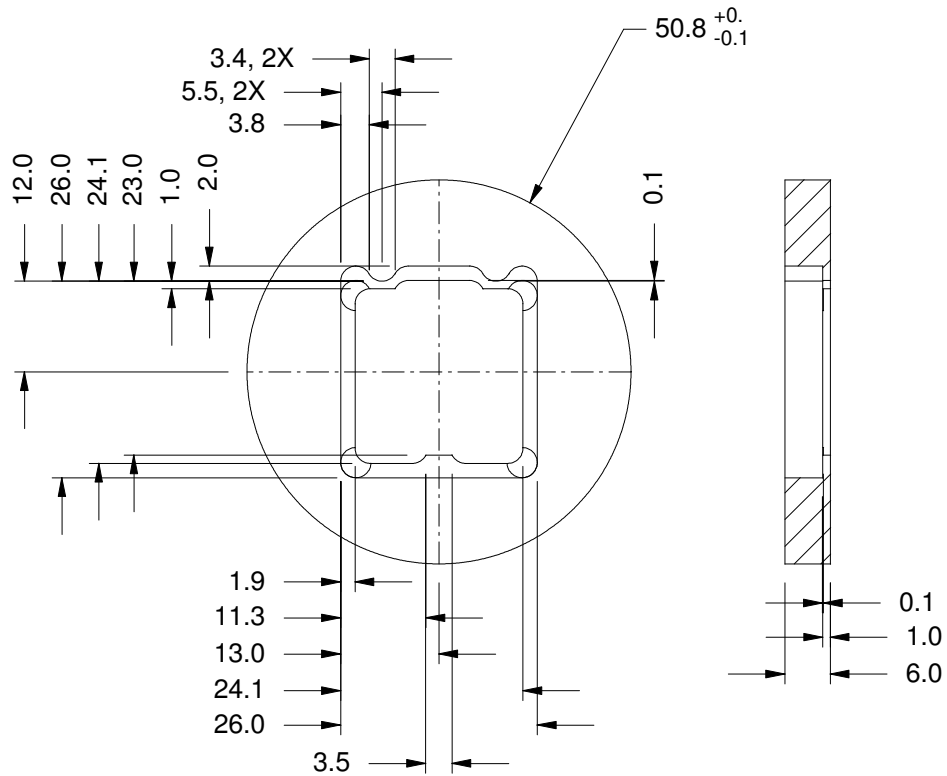
1. FJP VIPA substrate flat and uniform;
 Flatness: 2nm rms (target 1nm rms) and 20nm PV
 Thickness uniformity: 2nm rms (target 1nm) including wedge
2. 20-10 scratch dig.
3. Chamfer all edges.
4. Measure actual thickness and include in test report

VIPA
 LightMachinery OP-6721-X

dimensions mm	material: fused silica
Tolerances (unless otherwise noted)	
X ±0.5	A ±1°
X.X ±0.1	A.A ±0.1°
X.XX ±0.025	
Drawing Template QT-730-005-A	
Scale 1:1	
Third angle projection	

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REVISIONS			
REV	REVISED PER	Date	Approved
A	first release	2014 May 30	IJM



Mounted VIPA

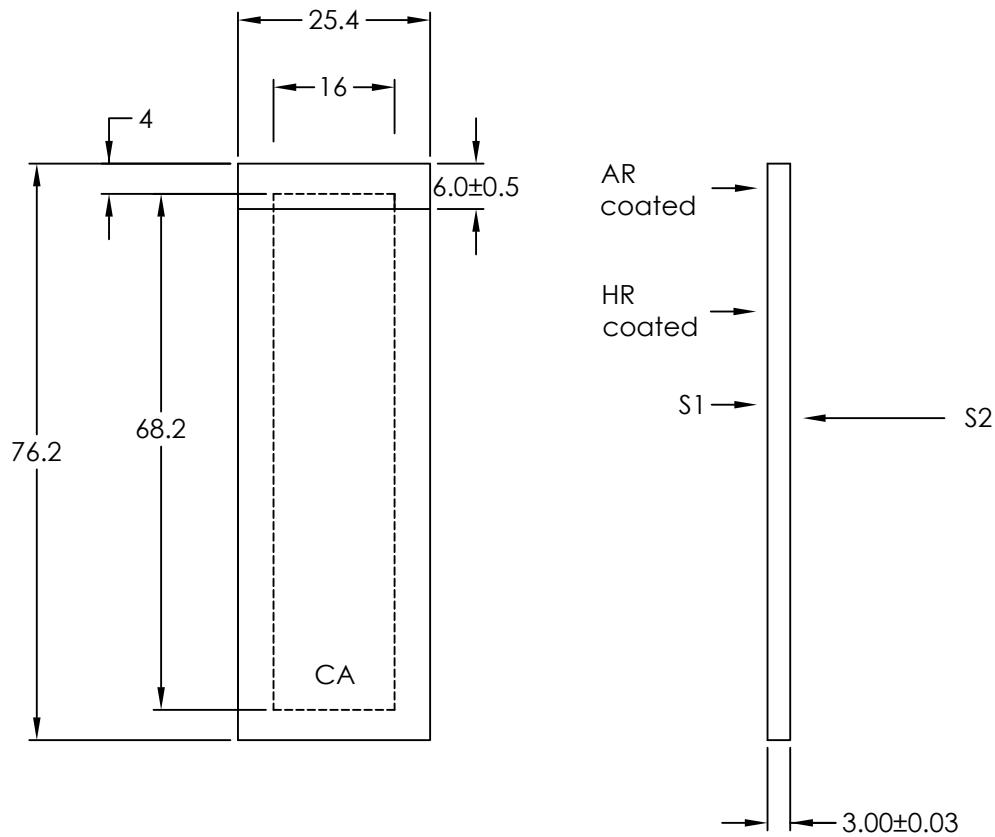
Notes:

1. All radii, 2 mm.
2. Corner relief spots at corners 0.1 deep.
3. Break sharp edges.
4. Black anodize.
5. Before mounting OP-6721-xxxx-y, mark surface with LightMachinery, and appropriate FSR and wavelength values as in the example.

VIPA mount
LightMachinery OP-7343

dimensions mm	material: aluminum
Tolerances (unless otherwise noted)	
X ±0.5	A ±1°
X.X ±0.1	A.A ±0.1°
X.XX ±0.025	
Drawing Template QT-730-002-E	Scale 1:1
	Third angle projection

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Revisions			
Rev.	Revised per	Date	App'd
A	first release	2015 July 17	JJD



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Notes:

1. FJP VIPA substrate flat (both sides) and uniform:
2. Flatness 6nm RMS (target 3nm) and 60nm PV
3. Thickness uniformity: 2nm RMS (target 1nm) including wedge
4. 20-10 scratch dig
5. Chamfer all edges
6. Measure actual thickness and include in test report
7. S1: top 6 mm is AR coated (4500-4550 nm)
8. S1: the rest is HR coated
9. Boundary between AR and HR: < 100 μm
10. S2: 97%R

VIPA, CaF₂, 3mm thick, 4550 nm
LightMachinery OP-7553-3000-1

dimensions mm	material: CaF ₂
Tolerances (unless otherwise noted):	Scale 1:1
Linear: x ±1 x.x ±0.1 x.xx ±0.01	Angular: a ±1 a.a ±0.1
Third angle projection	

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