



SECTION A-A
SCALE 1 : 1

NOTES/SPECIFICATIONS:

1. DESIGN FREQUENCY: 500GHz ($n=1.43$)
2. FOCAL LENGTH: $f=500.0 \text{ mm} \pm 2.0\%$
3. BACK FOCAL LENGTH(REF): $f_b=495.0 \text{ mm}$
4. CLEAR APERTURE: $\varnothing 42.5 \text{ mm}$
5. SURFACE QUALITY: 60-40 SCRATCH-DIG
6. TRANSMITTED WAVEFRONT ERROR: $<10 \mu\text{m}$, CORRESPONDING TO $\lambda/20$ AT 1.5 THz
7. CENTRATION: $<3 \text{ arcmin}$
8. DIAMETER TOLERANCE: $+0.0/-0.2 \text{ mm}$
9. CENTER THICKNESS TOLERANCE: $\pm 0.20 \text{ mm}$
10. RADIUS OF CURVATURE TOLERANCE: $\pm 2.0 \text{ mm}$

FOR INFORMATION ONLY
NOT FOR MANUFACTURING PURPOSES

DRAWING PROJECTION			THORLABS www.thorlabs.com PLANO CONVEX LENS $f=500.0 \text{ mm} \varnothing 50.0 \text{ mm}$	
NAME	DATE			
DRAWN	DS	07/01/2019	MATERIAL Virgin Grade PTFE	
APPROVAL	BW	07/10/2019		
COPYRIGHT © 2019 BY THORLABS VALUES IN PARENTHESIS ARE CALCULATED AND MAY CONTAIN ROUND OFF ERRORS			ITEM #	APPROX WEIGHT
			LAT500	26 g