



SECTION A-A  
SCALE 1 : 1

NOTES/SPECIFICATIONS:

1. DESIGN FREQUENCY: 500GHz ( $n=1.43$ )
2. FOCAL LENGTH:  $f=300.0\text{ mm} \pm 2.0\%$
3. BACK FOCAL LENGTH(REF):  $f_b=295.0\text{ mm}$
4. CLEAR APERTURE:  $\varnothing 42.5\text{ mm}$
5. SURFACE QUALITY: 60-40 SCRATCH-DIG
6. TRANSMITTED WAVEFRONT ERROR:  $<10\text{ }\mu\text{m}$ , 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:  $\pm 1.0\text{ mm}$

FOR INFORMATION ONLY  
NOT FOR MANUFACTURING PURPOSES

DRAWING PROJECTION			<b>THORLABS</b> <a href="http://www.thorlabs.com">www.thorlabs.com</a> PLANO CONVEX LENS $f=300.0\text{ mm } \varnothing 50.0\text{ mm}$	
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
			LAT300	29 g