



SECTION A-A

NOTES/SPECIFICATIONS:

1. DESIGN WAVELENGTH: 10.6 $\mu\text{m}$
2. FOCAL LENGTH:  $f=40.0\text{mm} \pm 1\%$
3. BACK FOCAL LENGTH(REF):  $bf=39.5\text{mm}$
4. CLEAR APERTURE:  $> \varnothing 10.16\text{mm}$
5. SURFACE QUALITY: 60-40 SCRATCH-DIG
6. CENTRATION:  $< 3\text{arcmin}$
7. DIAMETER TOLERANCE:  $+0.0/-0.1\text{mm}$
8. THICKNESS TOLERANCE:  $\pm 0.1\text{mm}$
9. COATING: BBAR 7.0-12.0 $\mu\text{m}$ ,  $R_{\text{avg}} < 1\%$ ,  $R_{\text{abs}} < 2\%$ ,  $T_{\text{avg}} > 94\%$ ,  $T_{\text{abs}} > 90\%$ ,  $0^\circ$  AOI ON BOTH OPTICAL SURFACES

FOR INFORMATION ONLY  
NOT FOR MANUFACTURING PURPOSES

DRAWING PROJECTION			<b>THORLABS</b> www.thorlabs.com	
NAME	DATE	GERMANIUM PLANO-CONVEX LENS, $\varnothing 12.7\text{mm}$ , $f=40\text{mm}$ , BBAR: 7.0-12.0 $\mu\text{m}$		
DRAWN	CFS	30/MAR/16	MATERIAL	REV
APPROVAL	MZ	18/JUL/16	GERMANIUM	A
COPYRIGHT © 2016 BY THORLABS			ITEM #	APPROX WEIGHT
VALUES IN PARENTHESIS ARE CALCULATED AND MAY CONTAIN ROUND OFF ERRORS			LA9280-E3	1.4 g