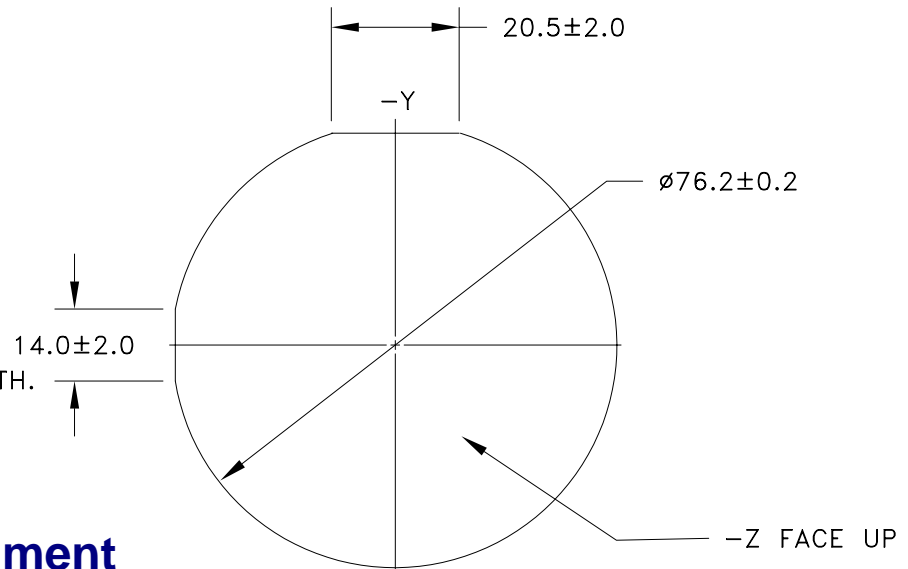


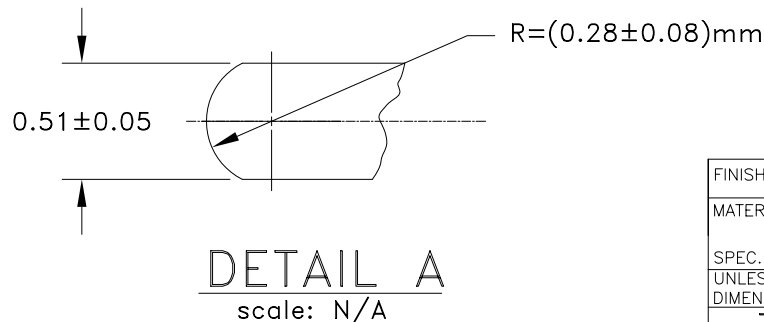
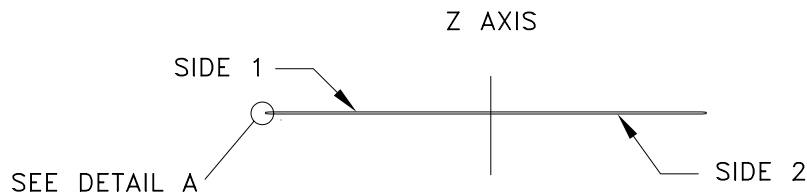
NOTES:


- 1.0.0 ORIENTATIONS
- 1.1.0 WAFER SURFACE IS NORMAL TO Z AXIS WITHIN  $\pm 0.3^\circ$
- 1.2.0 FLATS.
- 1.2.1 MAJOR FLAT IS NORMAL TO THE  $-Y$  AXIS WITHIN  $\pm 0.3^\circ$ .
- 1.2.2 MINOR FLAT IS  $90^\circ \pm 1.0^\circ$  COUNTER-CLOCKWISE FROM THE MAJOR FLAT WHEN VIEWING THE  $-Z$  FACE.
- 2.0.0 SURFACES
- 2.1.0 POLISH
- 2.1.1 THE MINUS Z SIDE POLISHED TO 10-5 SCRATCH DIG
- 2.1.2 THE PLUS Z SIDE POLISHED TO 20-10 SCRATCH DIG
- 2.2.0 EDGE
- 2.2.1 ALL EDGES ROUNDED WITH A  $0.28 \pm 0.08$  mm RADIUS
- 2.2.2 NO CHIPS  $> 0.5$ mm IN PENETRATION AND  $1.0$ mm IN LENGTH.
- 3.0.0 FLATNESS
- 3.1.0 WARP  $< 20$  MICRONS
- 3.2.0 TOTAL THICKNESS VARIATION  $< 6$  MICRONS.
- 4.0.0 MATERIAL
- 5.0 mol% MgO Lithium Niobate
- 4.0.1 Birefringent Phase Matching Temperature for 1064nm laser satisfies  $109^\circ\text{C} < T_{pm} < 116^\circ\text{C}$
- 4.0.2 OH-absorption peak location completely shifted to wavenumber  $3533.6/\text{cm}$
- 5.0.0 Shipment includes Certificate of Compliance 97-03044-01-100 detailing Measurements

REVISIONS					
ZONE	REV	DESCRIPTION	ECO NO.	APPD.	DATE
ALL	A	INITIAL RELEASE	.	JUNDT	01/20/09



**Document**  
**01/29/09**  
**Control**



FINISH: SEE NOTES		CONTRACT NUMBER		 <b>Crystal Technology, Inc.</b> AN EPCOS Company
MATERIAL: SEE NOTES		DR. DHJ	1/2009	
SPEC. NO.		CHK.		TITLE: LNMG 5.0%, 3"ø X .02", -Z Po/Po, -Y&-X FLT, TTV<6um
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN mm		APPD.		
TOLERANCES		APPD.		SIZE <b>A</b>
INCHES	MILLIMETERS	WAFER CODE: MNA--Z:076.050DN		DWG. NO. 97-03044-01
.XX ± .01	X.XX ± 0.25	CUSTOMER APPROVAL:		REV. A
.XXX ± .005	X.XXX ± 0.125			
.XXXX ± .0020	SURFACE FINISH 63/	DO NOT SCALE DRAWING		SCALE: N/A
ANG ± .5°				SH. 1 OF 1

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