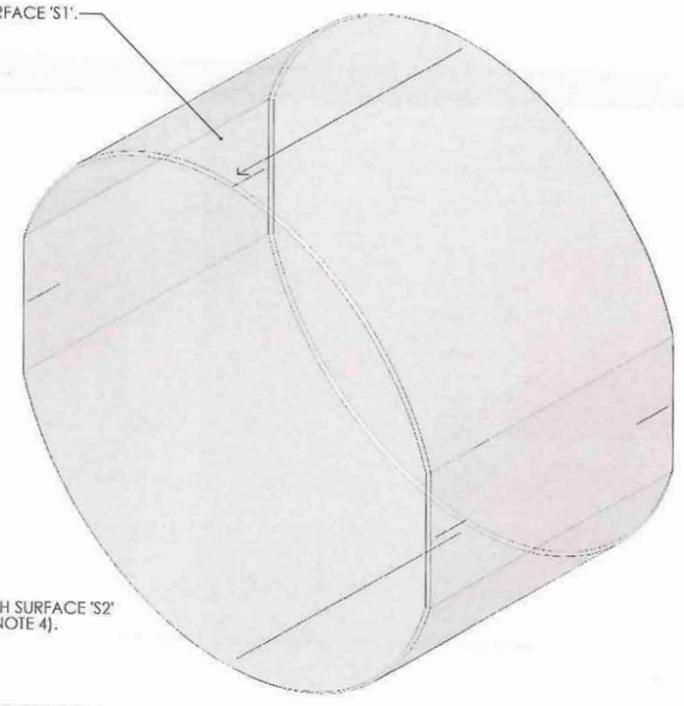


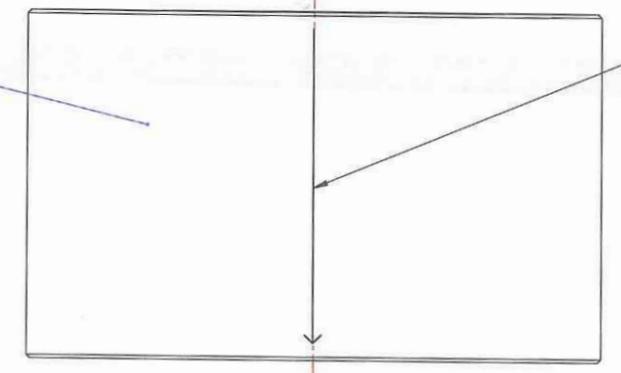
REV	DATE	DCN #	DRAWING TREE #
v1	11th Nov 2008	LIGO-E080047-v1	
v2	Feb 10 2009	LIGO E080047-v1	
v3	March 2009	LIGO E080047-v1	
v4	26 MAY 2010	E1000198	

SUBSTRATE IS SHOWN IN SUSPENDED STATE WITH VERTICAL WEDGE (THICK SIDE DOWN). THE ARROWED LINE IS SHOWN ON THE THIN SIDE, AND AS STATED POINTS TO SURFACE 'S1'.

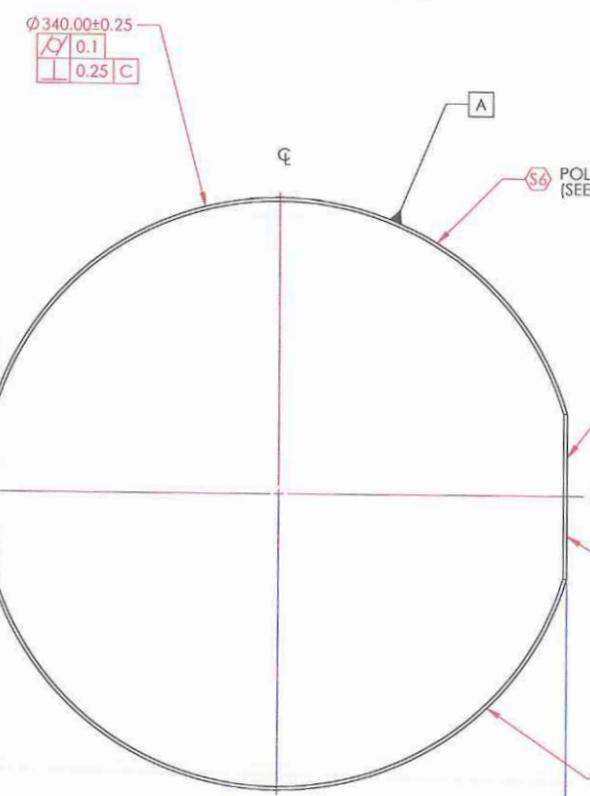


BARREL (SIDE) AND BEVEL POLISH (SEE NOTE 3)

ETCH OR GRIND LEGIBLE REFERENCE GROOVE (0.25mm ± 0.05mm WIDE) ALONG  $\phi$  WITHIN ±1° CLOCKING ANGLE (WITH RESPECT TO DATUM FEATURE -A-), PARALLEL TO THE CYLINDRICAL AXIS (DEFINED BY DATUM FEATURE -A-), WITH ARROW POINTING TO SURFACE 'S1' WITHIN ±0.1mm



TOP VIEW

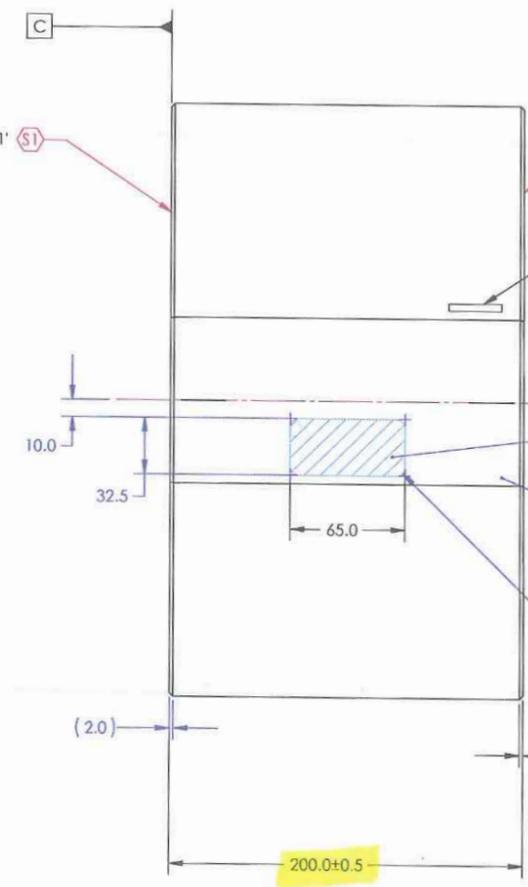


POLISH SURFACE 'S6' (SEE NOTE 3).

POLISH SURFACE 'S1' (SEE NOTE 4).

POLISH SURFACE 'S5' (SEE NOTE 3).

POLISH SURFACE 'S3' (SEE NOTE 4).



POLISH SURFACE 'S2' (SEE NOTE 4).

ETCH OR GRIND SERIAL NUMBER, APPROX. WHERE SHOWN, LETTERING APPROX. 4mm HIGH (SEE NOTE 7 FOR FURTHER DETAILS)

POLISH CROSS HATCHED AREA SEE NOTE 6 (REPEAT ON SURFACE 'S3').

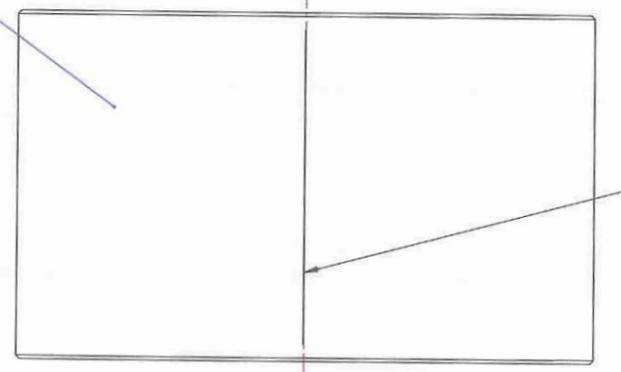
POLISH SURFACE 'S4' SEE NOTE 5 (REPEAT ON SURFACE 'S3')

4X, R5 TYP

2X, 2.0 ± 0.2 x 45° ± 5° CHAMFER, ALL AROUND

BARREL (SIDE) AND BEVEL POLISH (SEE NOTE 3)

ETCH OR GRIND LEGIBLE REFERENCE GROOVE (0.25mm ± 0.05mm WIDE) ALONG  $\phi$  WITHIN ±1° CLOCKING ANGLE (WITH RESPECT TO DATUM FEATURE -A-), PARALLEL TO THE CYLINDRICAL AXIS (DEFINED BY DATUM FEATURE -A-), WITHIN ±0.1mm



BOTTOM VIEW

Tol. change TBD

Tol. change TBD

MANUFACTURE NOTES:

- DO NOT SCALE FROM DRAWING.
- INTERPRET DRAWING AS PER ANSI Y14.5M 1994.
- BARREL (SIDE) AND BEVEL POLISH PER E080512.
- FINISH SURFACES 'S1' AND 'S2' AS PER E080512.
- FINISH (FLAT) SURFACES 'S3' AND 'S4' AS PER E080512.
- FINISH CROSS HATCHED AREA ON 'S3' & 'S4' AS PER E080512.
- REFER TO E080512 FOR MORE INFORMATION ON SERIAL NUMBER.
- INTENDED TO CAPTURE ALLOWABLE WEDGE ANGLE CLOCKING TOLERANCE OF ±5°.
- APPLY COATING PER E080068.

PARTS LIST

REF	QTY	PART NAME	DATE
REF E080047-v1		ETM	
		ETM SUBSTRATE	

REV	DATE	BY	CHKD	APPV	PROJ	SCALE	SHEET
v4							1 OF 1

E1900199

D1900269