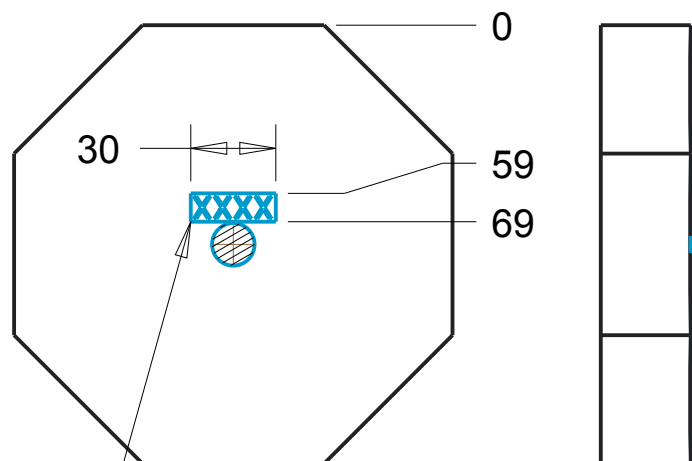
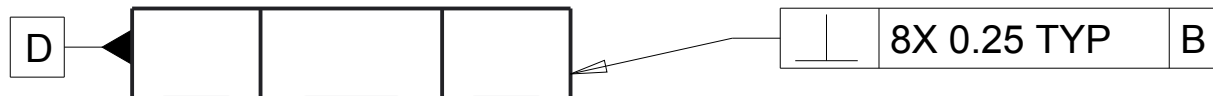


# FORM FACTOR NOTES:

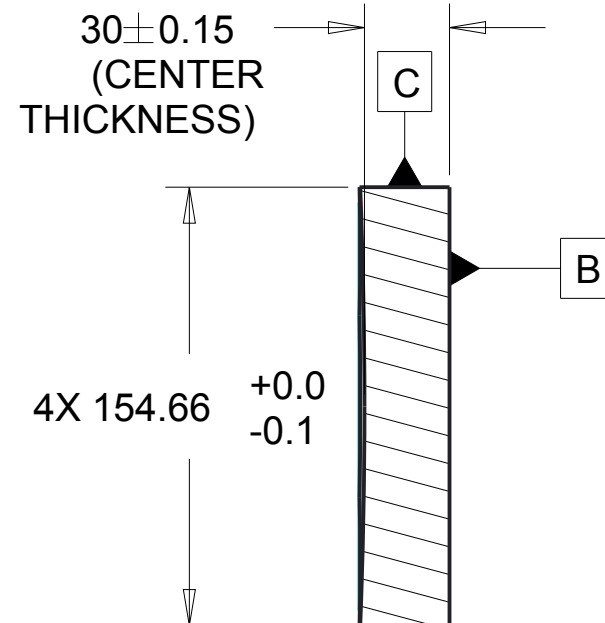
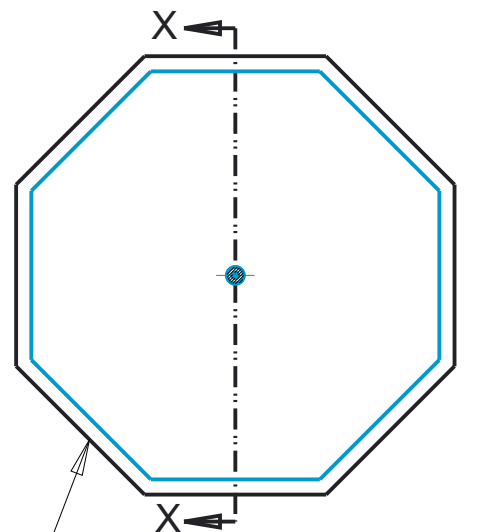
1. MATERIAL: CORNING ULE MIRROR GRADE.
2. ALL DIMENSIONS IN MM.
3. ALL EDGES CHAMFERED 0.5 MM X 45°.
4. FORM FACTOR IS REGULAR OCTAGON

FINISH:SEE NOTES

QUANTITY: TBD



ETCHED SERIAL #  
NOT TO EXCEED  
THIS AREA



SECTION X-X

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MILLIMETERS  
TOLERANCES:  
ANGULAR: MACH:±0.5° BEND:±0.5°  
ONE PLACE DECIMAL: ±0.1  
TWO PLACE DECIMAL: ±0.05

DESC:  
ESIS primary mirror, flight grade.

TITLE:  
PRIMARY\_FLIGHT

MATL:SEE NOTE 1

SIZE:  
A



DWG. NO:1 OF1

REV:  
G

MDL.BY:COURRIER

SCALE:0.375

DATE:Sept-27-16

SHEET:1 OF2

- SURFACE FINISH NOTES:
- 1. MATERIAL: CORNING ULE MIRROR GRADE.
  - 2. RMS slope error <1urad  
integration length = 4.0 mm  
spatial sampling resolution =2.0 mm
  - 3. RMS ripple <2.5 nm  
spatial periods 0.06-6.0 mm
  - 4. RMS surface roughness <1 nm  
spatial periods 1.6-70um
  - 5. R1/R2 WEDGE LESS THAN 0.1 MM TIR.
  - 6. Mark location of paraboloid apex with  
etched annulus, OD =6 mm, ID =2 mm,  
⊙ 0.25 to paraboloid apex.

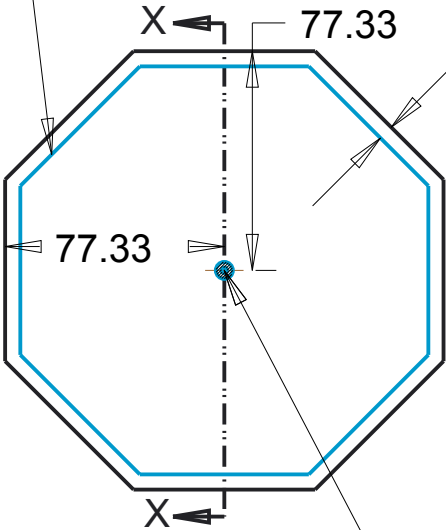
FINISH:SEE NOTES

QUANTITY: TBD

ALL OTHER SURFACES:  
FINE GRIND



CLEAR APERTURE



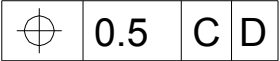
5.36 MAX  
TYP

SURF. A  
POLISH PER  
NOTES

C

B

PARABOLOID APEX



SECTION X-X

⊙ 15  
FINE GRIND  
OR MEDIA BLAST  
  
SHOP POLISH

SURF.	TYPE	RADIUS	RAD.TOL
A	PARABOLIC K=-1	-2000	±4
B	PLANO	INF	NA

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MILLIMETERS  
TOLERANCES:  
ANGULAR: MACH:±0.5° BEND:±0.5°  
ONE PLACE DECIMAL: ±0.1  
TWO PLACE DECIMAL: ±0.05

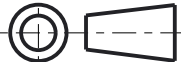
DESC:  
ESIS primary mirror, flight grade.

TITLE:  
PRIMARY\_FLIGHT

MATL:SEE NOTE 1

MDL.BY:COURRIER

SIZE:  
A



DWG. NO:1 OF1

REV:  
G

SCALE:0.375

DATE:Sept-27-16

SHEET:2 OF2