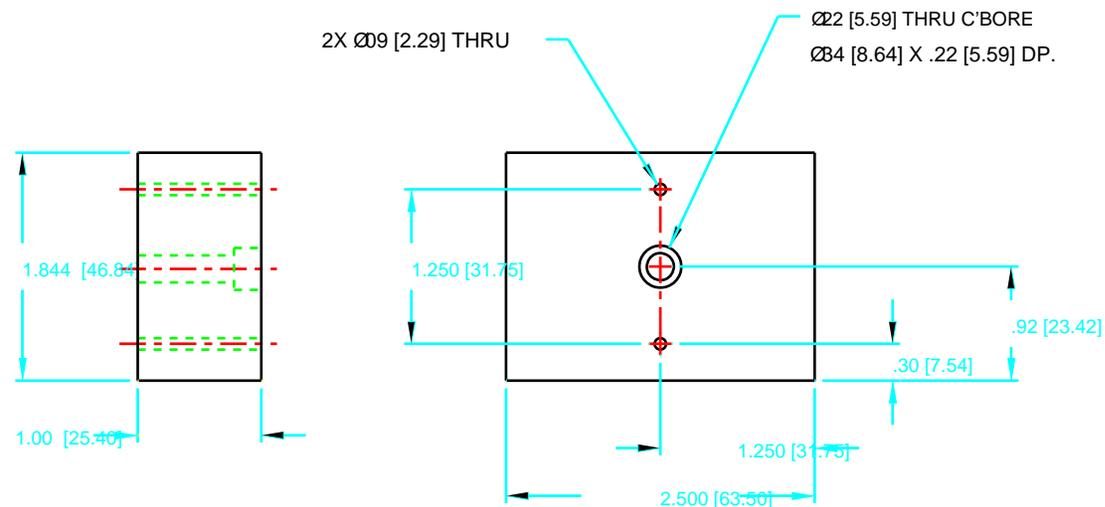


**NOTES:**

1. THIS IS A ULTRA- HIGH VACUUM COMPONENT (UHV)
2. WHEN MACHINING VACUUM PARTS, USE OF SILICONE AND SULPHUR-BASED CUTTING FLUIDS IS PROHIBITED. USE ONE OF THE FOLLOWING:
  - A) CIMCOOL 5 STAR 49
  - B) TRIM SOL
3. FINISHING: WHEN MACHINING VACUUM PARTS USE OF ABRASIVE PAPER OR SANDING DISCS, BUFFING OR POLISHING COMPOUNDS, OR RESIN-BONDED GRINDING WHEELS IS PROHIBITED
4. CLEANING: THE COMPONENT MUST BE CLEANED SUCH THAT A UHV PRESSURE OF  $1 \times 10^{-9}$  TORR CAN BE ACHIEVED
5. HANDLING: THE COMPONENTS SHALL BE HANDLED WITH WHITE SILK GLOVES AND WRAPPED WITH ALUMINUM FOIL TYPE DRY ANNEAL AND UNDER CLEAN ROOM CONDITIONS
6. DIMENSIONS IN [ ] ARE MILLIMETERS AND FOR REF. ONLY

SYM	CHANGE DESCRIPTION	BY	CHKD	DATE
REVISIONS				



ITEM	DWG/PART NUMBER	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPEC	QTY
<b>PARTS LIST</b>				
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES		LOG NUMBER <b>P4420101-00</b>	THIS DRAWING IS THE PROPERTY OF <b>ARGONNE NATIONAL LABORATORY</b>	
TOLERANCES		<b>ADVANCED PHOTON SOURCE</b>		
DECIMALS	ANGULAR	DRAWN BY <b>MUSCIA</b>	DATE <b>7/22/99</b>	CHIEF DESIGN ENGINEER <b>D. SHU</b>
.X - .1 [2.5]	- 0°30'	CHECKED BY <b>J. CHANG</b>	DATE <b>12/9/99</b>	GP LEADER <b>T.M. KUZAY</b>
.XX - .01 [0.25]		DESIGNER <b>CHANG/MUSCIA</b>	DATE <b>7/22/99</b>	PROJECT MGR.
.XXX - .005 [0.13]		RESPONSIBLE ENGINEER <b>J. CHANG</b>	DATE <b>12/9/99</b>	APPROVED/RELEASED
SURFACE ROUGHNESS <b>125</b> ✓		TITLE <b>P4-40 INTEGRAL SHUTTERS FOR 4-ID-B TUNGSTEN STOP</b>		
REMOVE ALL BURRS AND BREAK SHARP EDGES .03 MAX.		SCALE <b>1:1</b>		
SURFACE TEXTURE TO BE IN ACCORDANCE WITH LATEST ANSI B46.1		SIZE <b>B</b>		
DIMENSIONING & TOLERANCING IN ACCORDANCE WITH LATEST ANSI Y14.5		DRAWING NUMBER <b>P4-420101-00</b>		
DO NOT SCALE DRAWING		SHEET <b>14</b>		