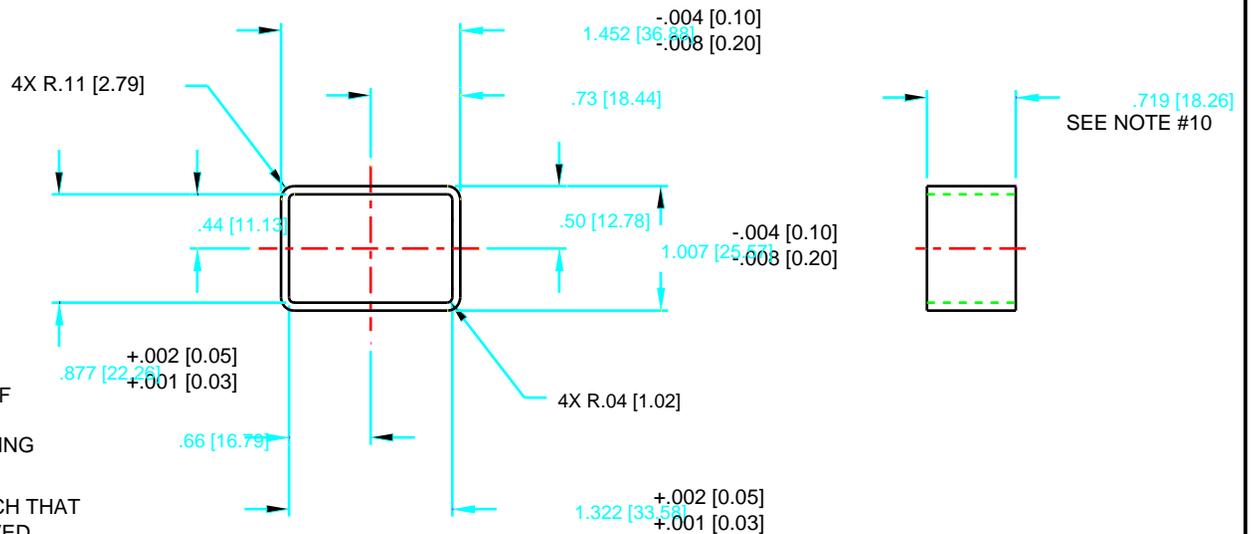


**NOTES:**

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
6. DIMENSIONS IN [ ] ARE MILLIMETERS AND
7. DIMENSIONS IN ( ) ARE FOR REF. ONLY
9. DO NOT BREAK SHARP EDGES
10. WELD SHRINKAGE SHALL BE ADDED TO THIS LENGTH



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 TOLERANCES DECIMALS .X - .1 [2.5] .XX - .01 [0.25] .XXX - .005 [0.13] ANGULAR - 0°30' SURFACE ROUGHNESS 125 ✓ REMOVE ALL BURRS AND BREAK SHARP EDGES .03 MAX. SURFACE TEXTURE TO BE IN ACCORDANCE WITH LATEST ANSI B46.1 DIMENSIONING & TOLERANCING IN ACCORDANCE WITH LATEST ANSI Y14.5 DO NOT SCALE DRAWING		LOG NUMBER <b>M7420104-00</b>	THIS DRAWING IS THE PROPERTY OF <b>ARGONNE NATIONAL LABORATORY</b>	
DRAWN BY <b>MUSCIA</b>	DATE <b>2/8/00</b>	CHIEF DESIGN ENGINEER <b>D. SHU</b>	DATE <b>4/11/00</b>	TITLE <b>ADVANCED PHOTON SOURCE</b>
CHECKED BY <b>J. CHANG</b>	DATE <b>4/10/00</b>	GP LEADER <b>T.M.KUZAY</b>	DATE <b>4/12/00</b>	<b>M7-42 FIXED MASK FOR 3-ID-A X-LENS RECTANGULAR TUBE</b>
DESIGNER <b>SHU/MUSCIA</b>	DATE <b>2/8/00</b>	PROJECT MGR.	DATE	
RESPONSIBLE ENGINEER <b>D.SHU</b>	DATE <b>4/11/00</b>	APPROVED/RELEASED	DATE	
MATERIAL <b>304 STAINLESS STEEL</b>		SCALE <b>1:1</b>	SIZE <b>B</b>	DRAWING NUMBER <b>M7-420104-00</b>
		SHEET <b>14</b>		