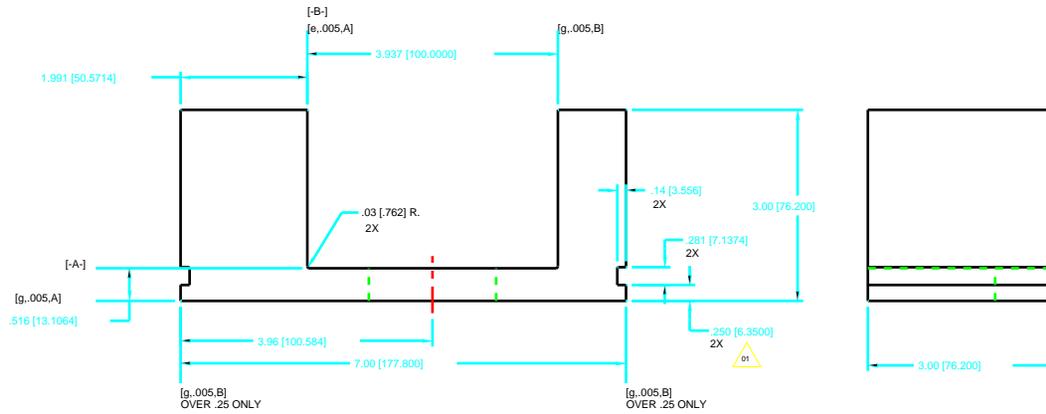
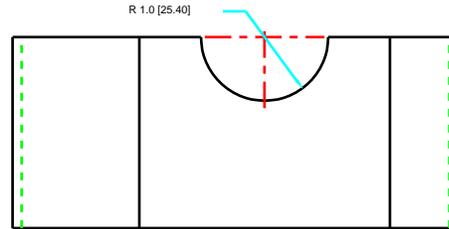


8 7 6 5 4 3 2 1



- 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. ALL SURFACES MUST BE MACHINED FOR CLEAN UP.
 4. TUNGSTEN ALLOY OF 95% TUNGSTEN OR MORE WITH REMAINDER NICKEL AND IRON.
TO COMPLY WITH MIL. SPEC. T-21014D, CLASS 4
 5. FINISHING: WHEN MACHINING VACUUM PARTS, USE OF ABRASIVE PAPER OR SANDING DISCS, BUFFING OR POLISHING COMPOUNDS, OR RESIN-BONDED GRINDING WHEELS IS PROHIBITED.
 6. CLEANING: THE COMPONENT MUST BE CLEANED SUCH THAT A UHV PRESSURE OF 1×10^{-10} TORR CAN BE ACHIEVED.
 7. HANDLING: CLEAN COMPONENTS SHALL BE HANDLED WITH WHITE SILK GLOVES AND WRAPPED WITH ALUMINUM-FOIL-TYPE DRY ANNEAL A UNDER CLEAN ROOM CONDITIONS.
 8. BREAK ALL SHARP CORNERS .02.
 9. ALL DIMENSIONS IN [] ARE MILLIMETERS AND ARE FOR REFERENCE ONLY.

ITEM	DWG. & ELECTRONIC FILE NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPEC	QTY
PARTS LIST				
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES				
TOLERANCES:				
DECIMALS		ANGULAR		
X	.10	.25		
XX	.025	.125		
XXX	.005	.025		
SURFACE ROUGHNESS				
REMOVE ALL BURRS AND BREAK SHARP EDGES TO MAX.				
SURFACE TEXTURE TO BE IN ACCORDANCE WITH LATEST ASME B46.1				
OMBODING & TOLERANCING IN ACCORDANCE WITH LATEST ASME Y14.5				
DO NOT SCALE DRAWING				
ELECTRONIC FILE NUMBER: A18180				
THIS DRAWING IS THE PROPERTY OF ARGONNE NATIONAL LABORATORY				
DRAWN BY	DATE	CHIEF DESIGN ENGINEER	DATE	TITLE
RICK KRAKORA	12/92	D.SHU	8/11/93	ADVANCED PHOTON SOURCE
CHECKED BY	DATE	DATE	DATE	DATE
T. SANCHEZ	8/11/93	T. KUZAY	8/11/93	S1 I.D. SAFETY SHUTTER
DESIGNER	DATE	PROJECT MGR	DATE	DATE
RICK KRAKORA	12/92			TUNGSTEN BLOCK
RESPONSIBLE ENGINEER	DATE	APPROVED/RELEASED	DATE	DATE
T. SANCHEZ	8/11/93			BASE CENTER LEFT
MATERIAL: SEE NOTE 4				
SCALE: 1=1			SIZE: D	
SHEET: 1 of 1			DRAWING NUMBER: P4102010108-230004-01	

DT	CHG. DESCRIPTION	BY	CHKD	DATE
01	DM. 250 WAS .72	RK		
02M	CHANGE DESCRIPTION			
REVISIONS				