



REF. SOURCE

MITEK METALS, INC.  
 1340 NORTH SENATE AVE.  
 INDIANAPOLIS, IN 46202  
 TEL: 1-317-637-3574  
 FAX: 1-317-633-7224

**NOTES:**

- TUNGSTEN ALLOY OF 95% TUNGSTEN OR MORE WITH REMAINDER OF NICKEL AND IRON PER MIL-T-210140, CLASS 3, UHV GRADE
- THIS IS A ULTRA- HIGH VACUUM COMPONENT (UHV)
- WHEN MACHINING VACUUM PARTS, USE OF SILICONE AND SULPHUR-BASED CUTTING FLUIDS IS PROHIBITED. USE ONE OF THE FOLLOWING:
  - CINCOOL 5 STAR 49
  - TRIM SOL
- ALL SURFACES MUST BE MACHINED FOR CLEAN UP
- FINISHING: WHEN MACHINING VACUUM PARTS USE OF ABRASIVE PAPER OR SANDING DISCS, BUFFING OR POLISHING COMPOUNDS, OR RESIN-BONDED GRINDING WHEELS IS PROHIBITED
- CLEANING: THE COMPONENT MUST BE CLEANED SUCH THAT A UHV PRESSURE OF  $1 \times 10^{-9}$  TORR CAN BE ACHIEVED
- HANDLING: THE COMPONENTS SHALL BE HANDLED WITH WHITE SILK GLOVES AND WRAPPED WITH ALUMINUM FOIL TYPE DRY ANNEAL AND UNDER CLEAN ROOM CONDITIONS
- DIMENSIONS IN [ ] ARE MILLIMETERS AND FOR REF. ONLY

1	.787 [20.00] WAS .760 [19.29]	M.J.M		
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		THIS DRAWING IS THE PROPERTY OF		
TOLERANCES		<b>ARGONNE NATIONAL LABORATORY</b>		
DECIMALS	FRACTIONS	<b>ADVANCED PHOTON SOURCE</b> K5-20 HEAVY METAL COLLIMATOR FOR 4-ID-A COLLIMATOR		
.1 (2.5)	Ø .030			
.01 (0.25)				
.005 (0.13)				
SURFACE ROUGHNESS 125 ✓				
REMOVE ALL BURRS AND BREAK SHARP EDGES 3X MAX.		MATERIAL / SPEC		
SURFACE TEXTURE TO BE IN ACCORDANCE WITH LATEST ASPT 24		SEE NOTE #1		
DIMENSIONS & TOLERANCES IN ACCORDANCE WITH LATEST ASPT 24		SCALE HALF		
DO NOT SCALE DRAWING		SHEET 1 of 1		
		DRAWING NUMBER		
		K5-210001-01		