



NOTES:

- FOR COMPLETE SPECIFICATIONS ON MACHINING, CLEANING, VACUUM REQUIREMENTS, TESTING AND DELIVERY PREPARATION, SEE ANL DOCUMENT #410201-00095.
- DIMENSIONS IN BRACKETS [] ARE MILLIMETERS AND ARE FOR REFERENCE ONLY.
- INSTALL HELICOFLEX SEAL; ITEM 10, AS FOLLOWS:
 INSTALL THE HELICOFLEX SEAL IN THE GROOVE AND POSITION THE QUARTZ WINDOW; ITEM 4, & WINDOW CLAMP; ITEM 5, OVER THE HELICOFLEX SEAL.
 INSTALL #1/4" SPLIT LOCKWASHERS; ITEM 9, & S.H.C. SCREW; ITEM 8, AS SHOWN. TIGHTEN THE SCREWS IN "STAR" POSITION UNTIL THE EDGES OF WINDOW CLAMP; ITEM 5, COME INTO CONTACT WITH THE FLANGE.

SECTION A-A

ITEM	DWG/PART NUMBER	NOMENCLATURE OR DESCRIPTION	MATERIAL / SPEC	QTY
6		#1/4" SPLIT LOCKWASHER	SST	14
5		SOCKET HEAD CAP SCREW .250-28 UNF-3A x .87 LG.	SST	14
4	P4105091507-220003	WINDOW CLAMP	304 SST	1
3	P4105091507-220002	VIEWPORT WINDOW	FUSED QUARTZ	1
2	P4105091507-220001	HELICOFLEX SEAL	SEE DRAWING	1
1	P4105091507-220100	VIEWPORT SPOOL WELDMENT	304 SST	1

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES TOLERANCES:		LOG NUMBER		THIS DRAWING IS THE PROPERTY OF	
DECIMALS .010 .015 .030		A2180001		ARGONNE NATIONAL LABORATORY	
ANGULAR .010 .015 .030		DRAWN BY P. ENGBRECHT		DATE 11/94	
SURFACE ROUGHNESS 125		DESIGNED BY C. BRITE		DATE 11/94	
REMOVE ALL BURRS AND BREAK SHARP EDGES (R&M)		DESIGNER P. ENGBRECHT		DATE 11/94	
SURFACE TEXTURE TO BE IN ACCORDANCE WITH LATEST ANSI B46.1		RESPONSIBLE ENGINEER C. BRITE		DATE 11/94	
DIMENSIONING & TOLERANCING IN ACCORDANCE WITH LATEST ANSI Y14.5		APPROVED/RELEASED		DATE	
DO NOT SCALE DRAWING		MATERIAL		SEE PARTS LIST	
REVISIONS		SCALE 1:1		SHEET 1 of 1	
1 PICTORIAL CHANGES		DRAWING NUMBER		D P4105091507-220000-01	

ADVANCED PHOTON SOURCE
L7 SOFT X-RAY
VERTICAL EXIT SLIT

VIEWPORT SPOOL SUB-ASSEMBLY

D P4105091507-220000-01