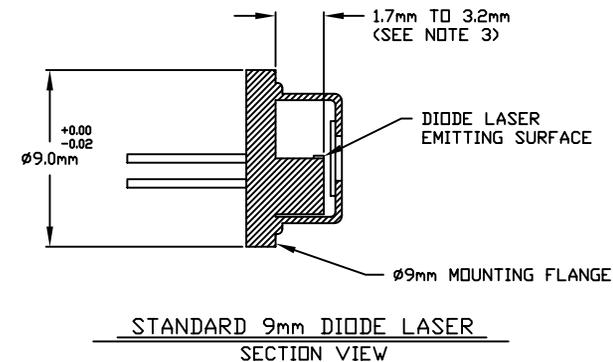
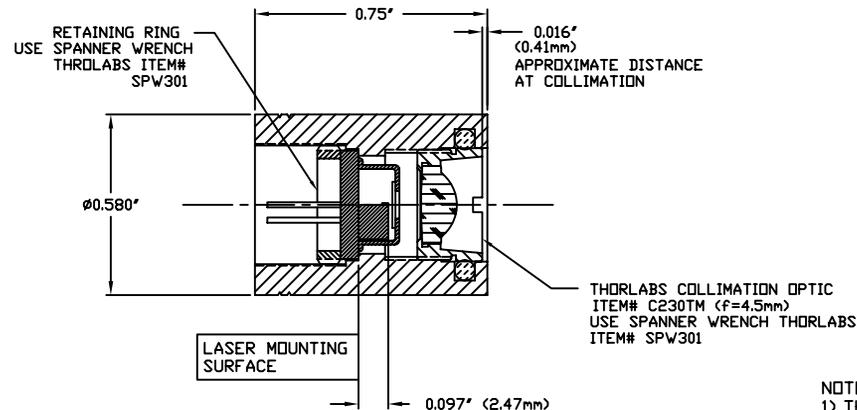
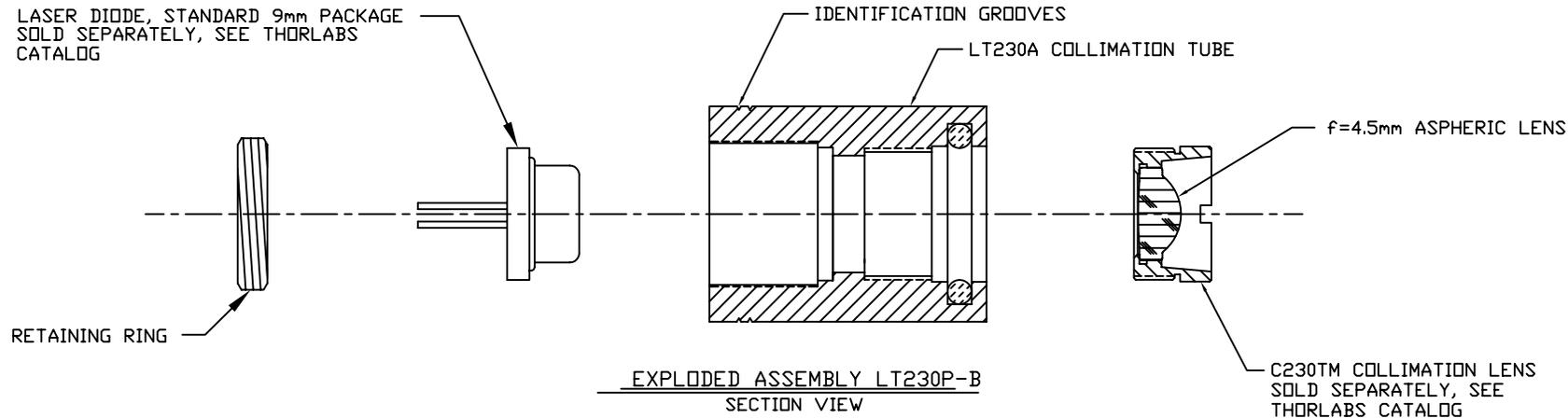


THE LENS TUBE IS DESIGNED TO HOLD A 9mm DIAMETER LASER DIODE. IN ORDER TO USE IT WITH A 5.6mm LASER, TWO ADAPTER, PARTS ARE INCLUDED. TO INSTALL THE ADAPTER PARTS FOLLOW THE STEPS BELOW:

1. REMOVE THE RETAINING RING ON THE SIDE OF THE COLLIMATION TUBE, WHERE THE 9.0mm LASER DIODE WOULD GO.
2. TAKE THE ADAPTER PART THAT HAS NO OUTER THREADS AND INSERT IT INTO THE TUBE AS FAR AS IT CAN GO SO THAT THE TOP OF ITS TOP-HAT SHAPE IS AIMED TOWARDS THE LENS.
3. PUT IN THE LASER DIODE.

THREAD IN THE THREAD ADAPTER WITH THE SAME ORIENTATION.

LASER DIODE, STANDARD 9mm PACKAGE
SOLD SEPARATELY, SEE THORLABS
CATALOG



NOTES:

- 1) THE LT230A WAS DESIGNED USING THE TOSHIBA STANDARD 9mm LASER DIODE PACKAGE, THE PRINCIPLE PLANE OF THE C230TM (f=4.5mm) IS NOMINALLY 6.97mm FROM THE LASER MOUNTING SURFACE.
- 2) THE C230TM LENS CELL HAS ±1mm OF ADJUSTMENT RANGE FROM THE POSITION SHOWN IN THE ASSEMBLY DRAWING.
- 3) THE LT230A DESIGN REQUIRES THE EMITTING SURFACE OF THE LASER TO BE BETWEEN 1.7mm TO 3.2mm FROM THE 9mm MOUNTING FLANGE OF THE LASER.
- 4) THE LT230A DESIGN INCLUDES AN O-RING TO CENTER THE LENS. SINCE THE BEAM PATH WILL VARY DURING ADJUSTMENT (RETURNING NOMINALLY TO THE SAME POSITION) IT IS RECOMMENDED THAT THE LENS BE ADJUSTED PRIOR TO THE ALIGNMENT OF THE REMAINING OPTICAL SYSTEM. THE LENS MAY BE FIXED IN PLACE WITH AN ADHESIVE AFTER IT IS SET IN POSITION.

NOT TO SCALE

THORLABS		PO BOX 366	
		NEWTON NJ	
TITLE			
LT230A COLLIMATION TUBE			
TOL: X.XXX=±0.005 X.XX=±0.010 ANGULAR ±30°			
SURF. FINISH: 32 MICROINCHES UNLESS OTHERWISE NOTED			
DRAWN	ENGINEER	APPROVED	
AC	AC	AC	
MATERIAL			
N/A			
DATE	REV	SIZE	SHEET
02/09/95	C	D	1 OF 1
DWG NO.	PART#	WHERE USED	
0897-E01	LT230A	ENGINEERING SUPPORT DRAWING	