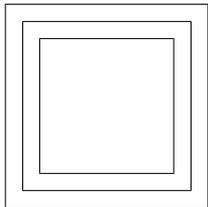
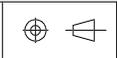
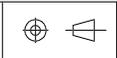


DWG. No. B0035



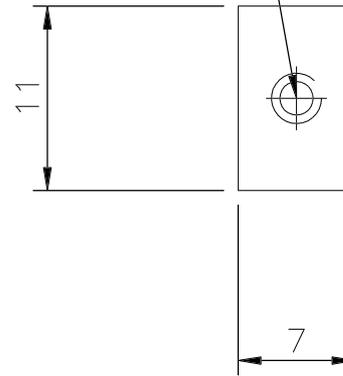
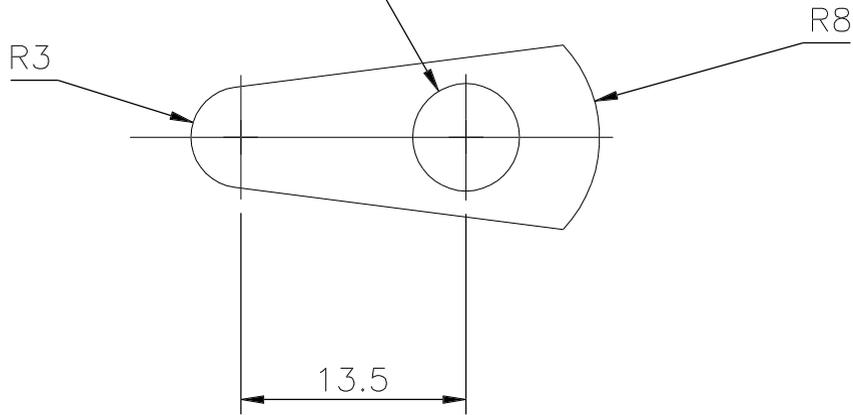
							UNLESS OTHERWISE STATED	MATERIAL	 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM 			
							DIMENSIONS ARE IN mm	DELRIN				
							GENERAL TOLERANCE: ± 0.2	FINISH	TITLE			
							ANGULAR TOLERANCE: ± -	-	NEAR INFRA RED CAMERA			
							SURFACE FINISH: 3.2/√ (MICRONS)		DELRIN WASHER			
							REMOVE ALL SHARP EDGES	USED ON	ORIGINAL SHEET	LOCATION	DWG. No.	REV
2	FOR MANUFACTURE	IPB			RC	07/07/97	B0010	A3	BO	B0035	2	
REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE		ORIGINAL SCALE	1:1		SHEET 1 OF 1	
ISSUE DESCRIPTION							DO NOT SCALE THIS DRAWING					

DWG. No. B0002



Ø6.4 THRU'
Ø6.5 THRU'

M3 THRU'

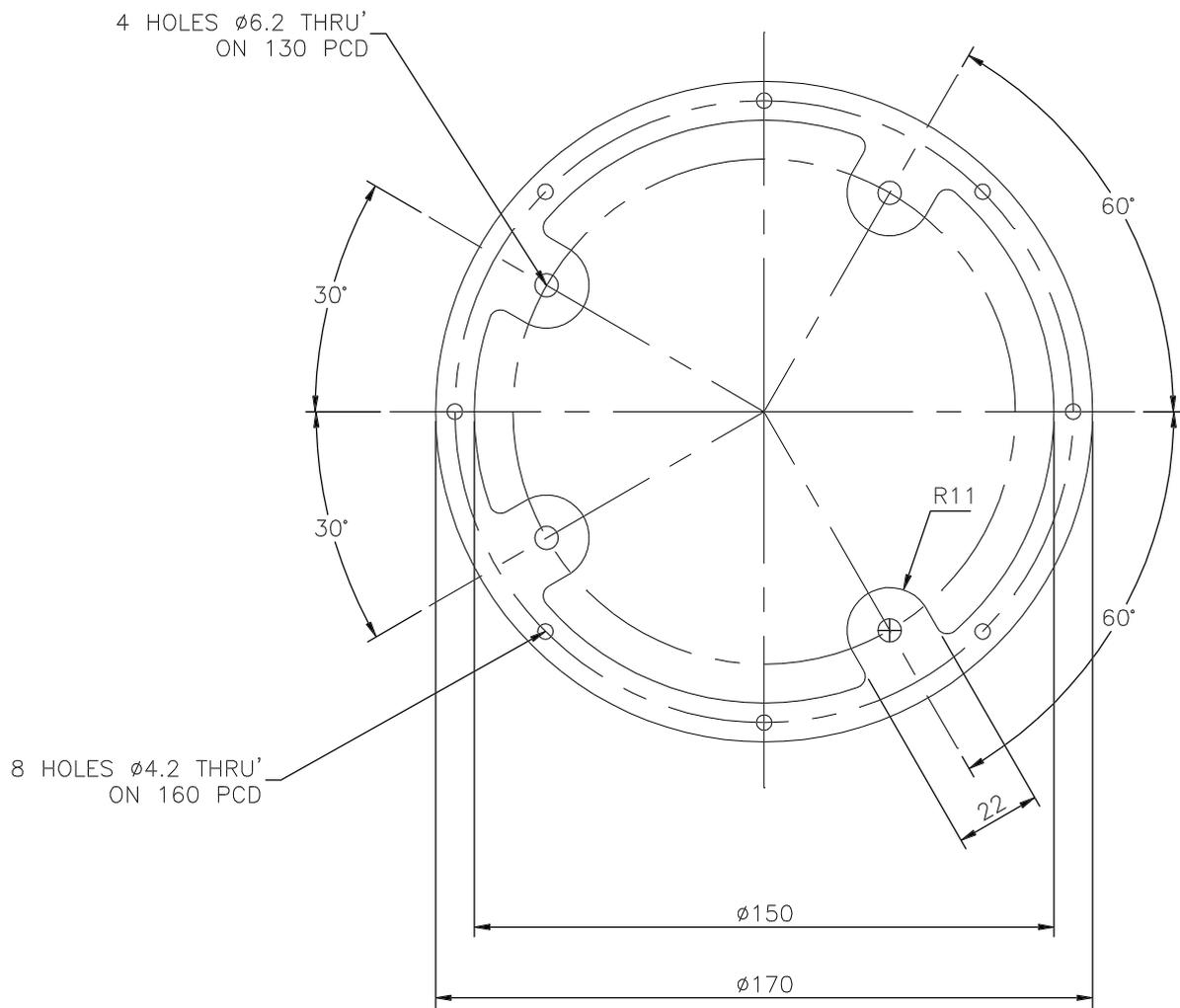


REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE
	FOR MANUFACTURE	IPB			RC	13/01/97
	ISSUE DESCRIPTION					

UNLESS OTHERWISE STATED
 DIMENSIONS ARE IN mm
 GENERAL TOLERANCE: ± 0.25
 ANGULAR TOLERANCE: ± 0.2
 SURFACE FINISH: 1.6/
 (MICRONS) ✓
 REMOVE ALL SHARP EDGES
 DO NOT SCALE THIS DRAWING

MATERIAL AL.ALLOY
 FINISH -
 USED ON

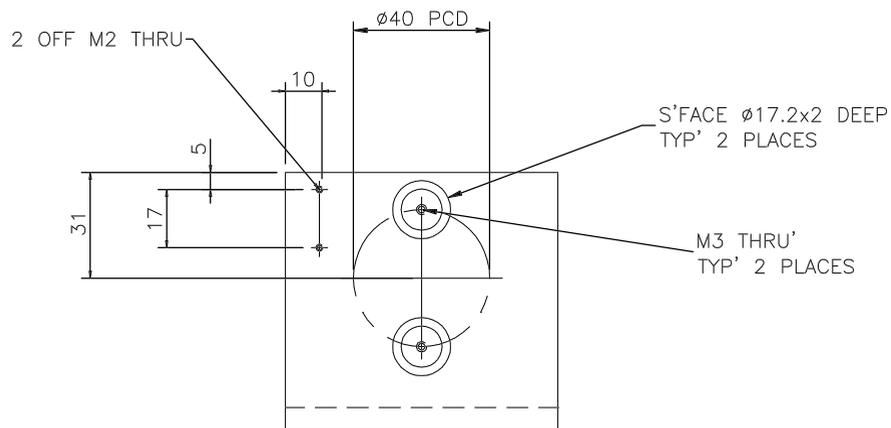
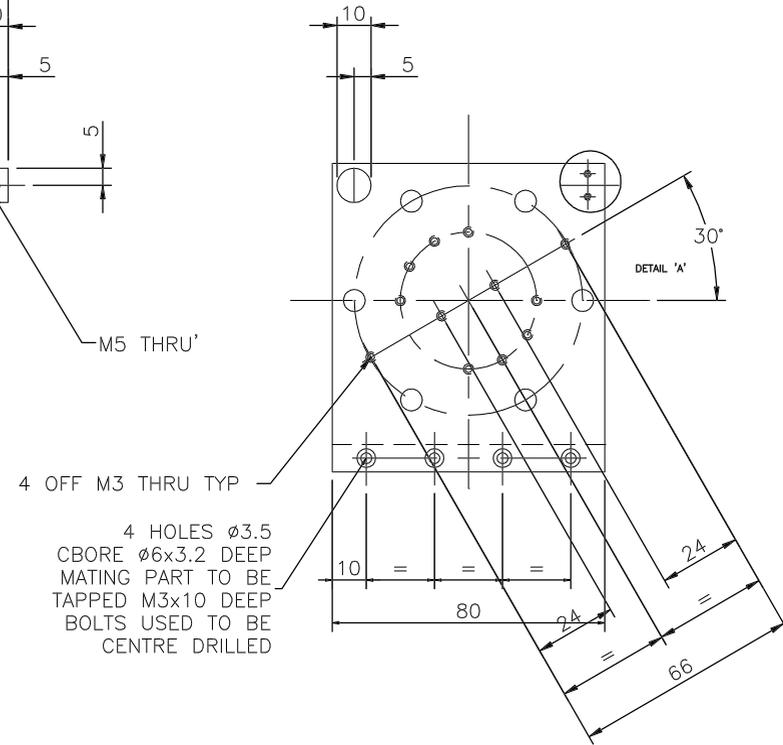
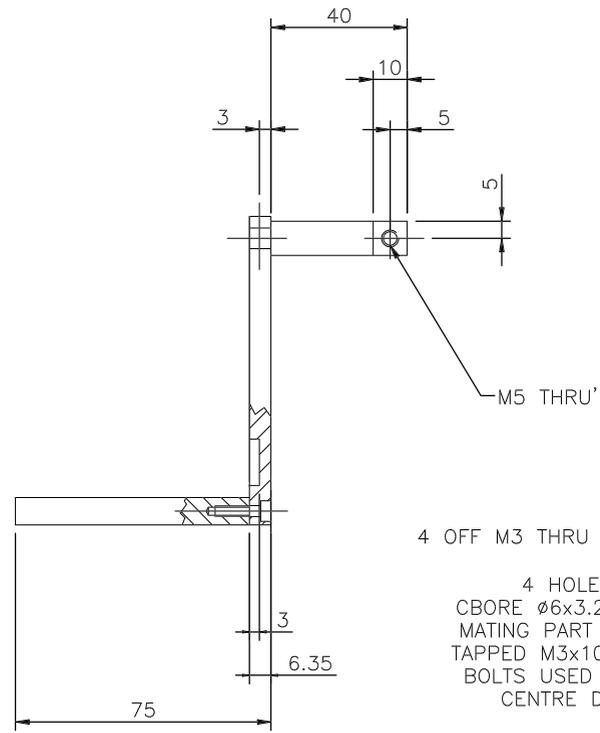
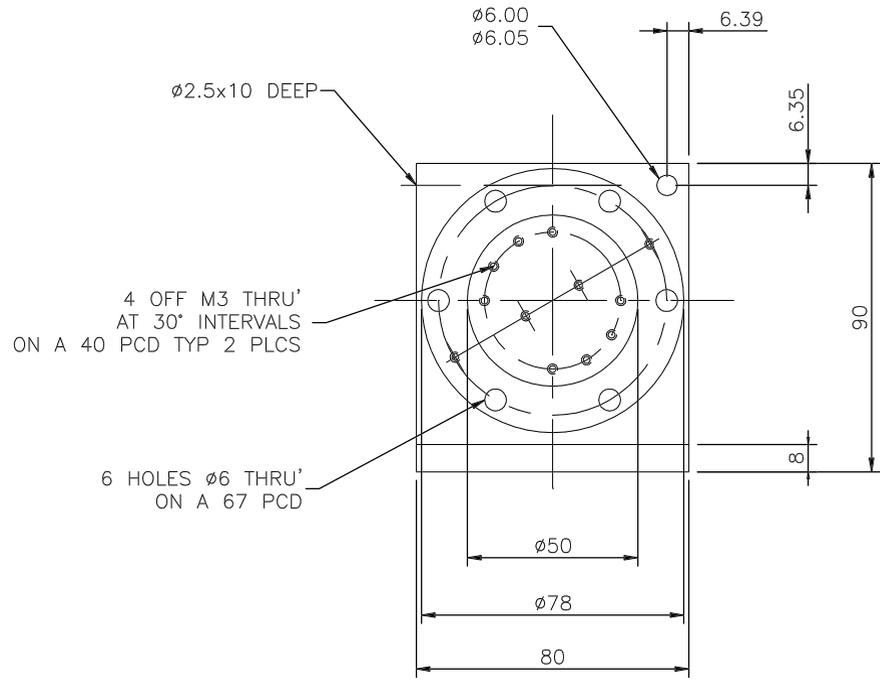
		ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM			
TITLE		WHT NEAR INFRA RED CAMERA MOTOR COLD TEST CAM			
ORIGINAL SHEET	LOCATION	DWG. No.		REV	
A3	BO	B0002			
ORIGINAL SCALE	2:1			SHEET	OF 1

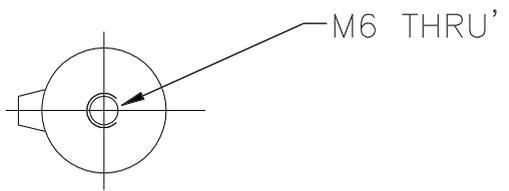
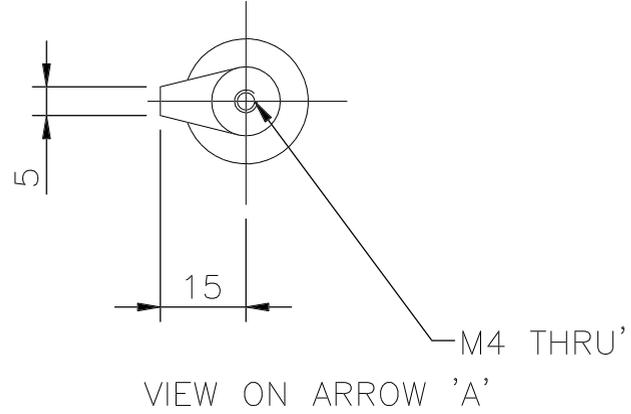
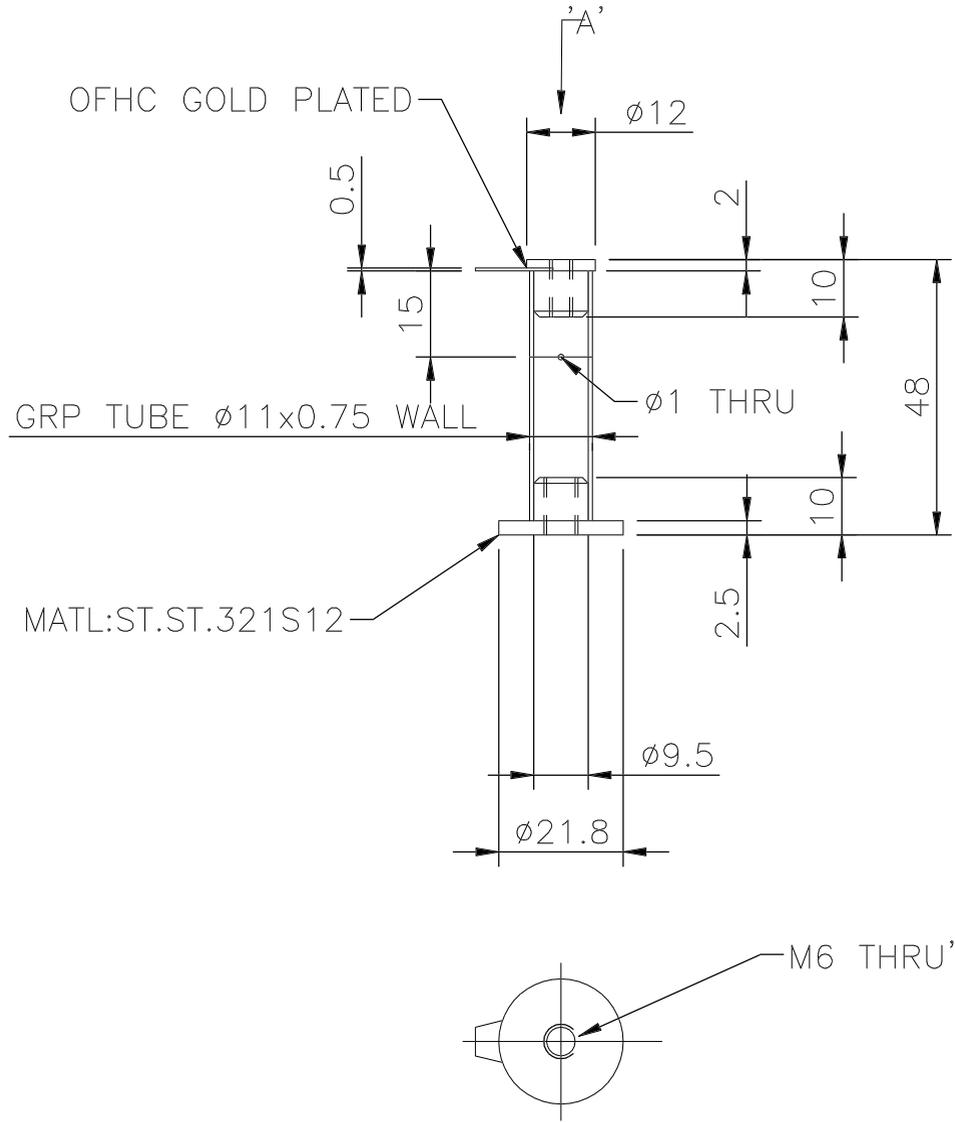
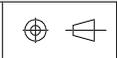


							UNLESS OTHERWISE STATED	
							DIMENSIONS ARE IN mm	
							GENERAL TOLERANCE: ± 0.25	
							ANGULAR TOLERANCE: ± 0.5	
							SURFACE FINISH: 1.6 / (MICRONS) ✓	
							REMOVE ALL SHARP EDGES	
							DO NOT SCALE THIS DRAWING	
1	FOR MANUFACTURE	IPB			RC	05/03/97		
REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE		

MATERIAL	BS.1470 6082 T6 1.6mm THK
FINISH	POLISHED
USED ON	

 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM		PPARC
TITLE NEAR INFRA RED CAMERA MOUNTING RING		
ORIGINAL SHEET A2	LOCATION BO	DWG. No. B0011
ORIGINAL SCALE 1:1	SHEET 1 OF 1	





NOTE : PARTS TO BE TRANSITION FIT H7 n6

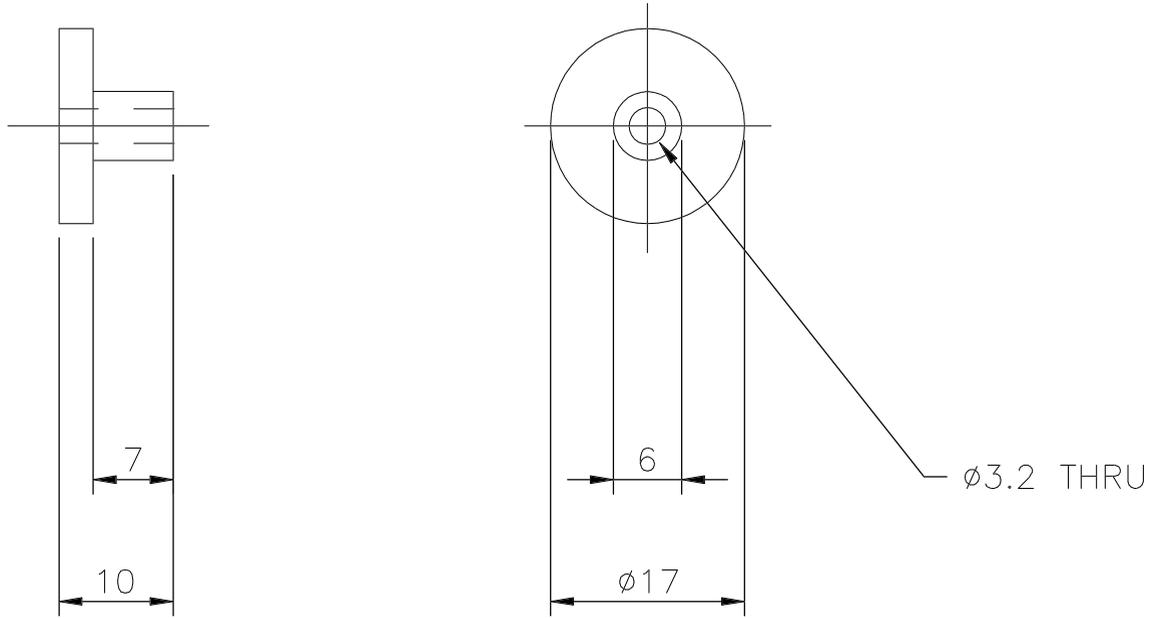
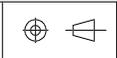
REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE
1	FOR MANUFACTURE	IPB			RC	27/02/97
ISSUE DESCRIPTION						

UNLESS OTHERWISE STATED
 DIMENSIONS ARE IN mm
 GENERAL TOLERANCE: ± 0.25
 ANGULAR TOLERANCE: ± -
 SURFACE FINISH: 3.2/
 (MICRONS)
 REMOVE ALL SHARP EDGES
 DO NOT SCALE THIS DRAWING

MATERIAL	SEE DETAIL
FINISH	-
USED ON	B0010

		ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM			
TITLE					
NEAR INFRA-RED CAMERA LARGE COOLING POST					
ORIGINAL SHEET	LOCATION	DWG. No.		REV	
A3	BO	B0013		1	
ORIGINAL SCALE	1:2			SHEET 1 OF 1	

DWG. No. B0014

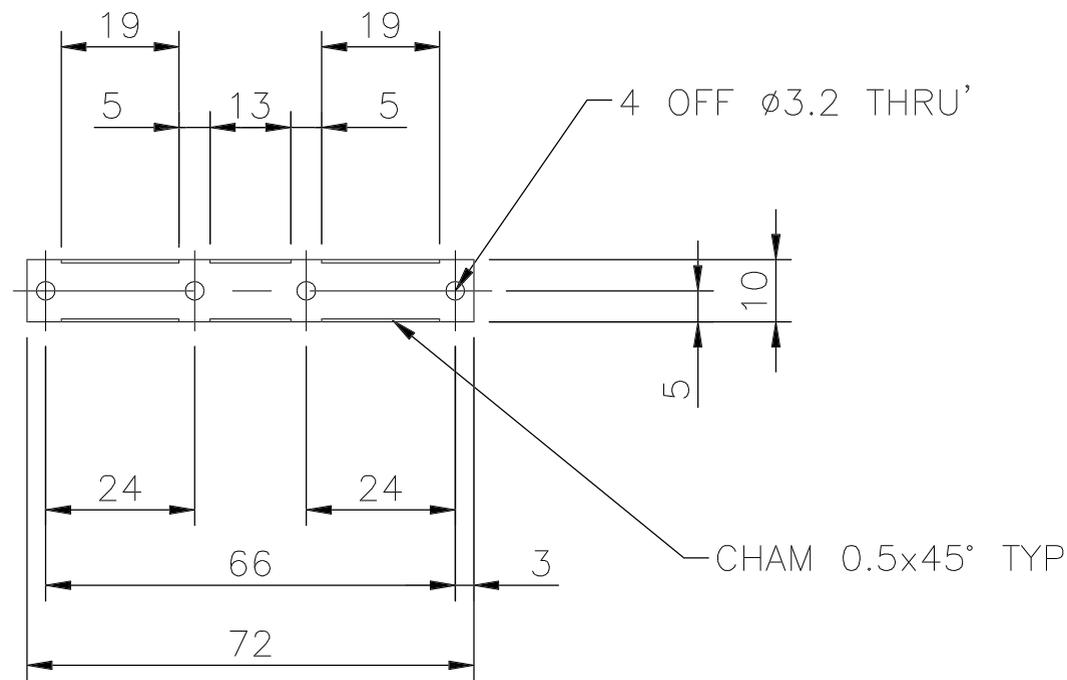
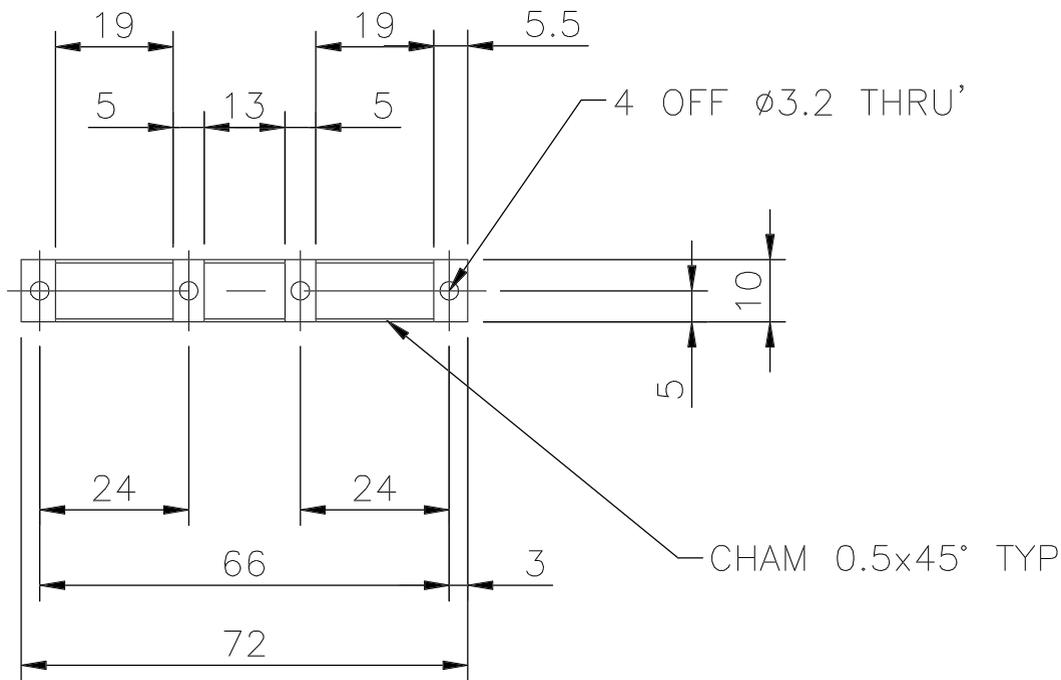
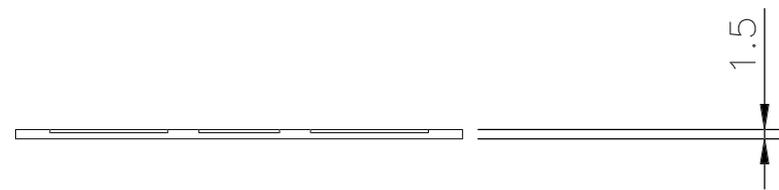
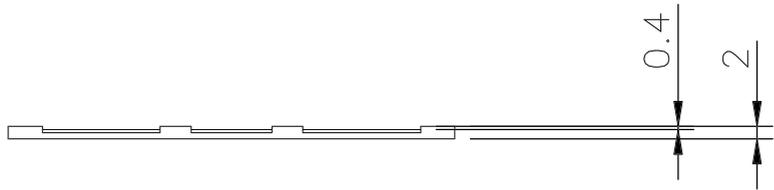


REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE
1	FOR MANUFACTURE	IPB			RC	10/02/97
ISSUE DESCRIPTION						

UNLESS OTHERWISE STATED
 DIMENSIONS ARE IN mm
 GENERAL TOLERANCE: ± 0.25
 ANGULAR TOLERANCE: ± -
 SURFACE FINISH: 3.2/
 (MICRONS) ✓
 REMOVE ALL SHARP EDGES
 DO NOT SCALE THIS DRAWING

MATERIAL	DELRIN
FINISH	-
USED ON	B0010

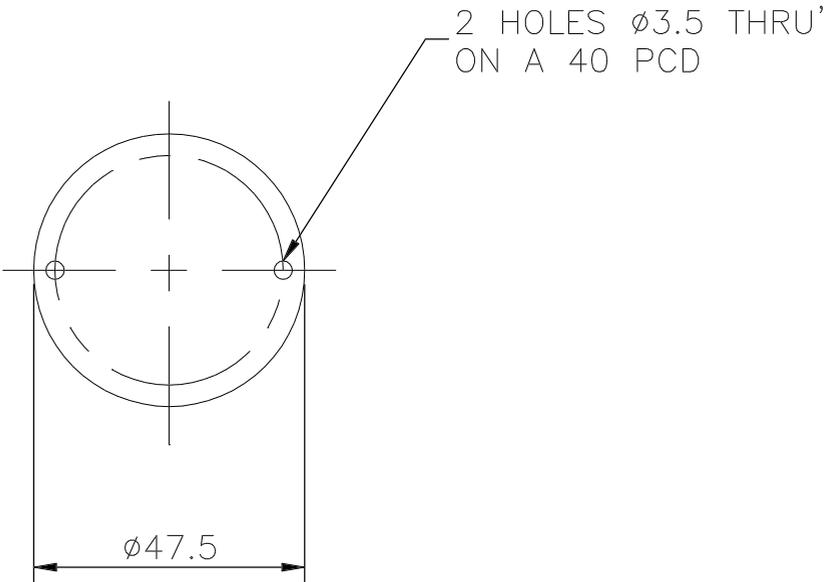
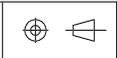
 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM			
TITLE			
NEAR INFRA-RED CAMERA SMALL COOLING POST			
ORIGINAL SHEET	LOCATION	DWG. No.	REV
A3	BO	B0014	1
ORIGINAL SCALE	2:1	SHEET 1 OF 1	



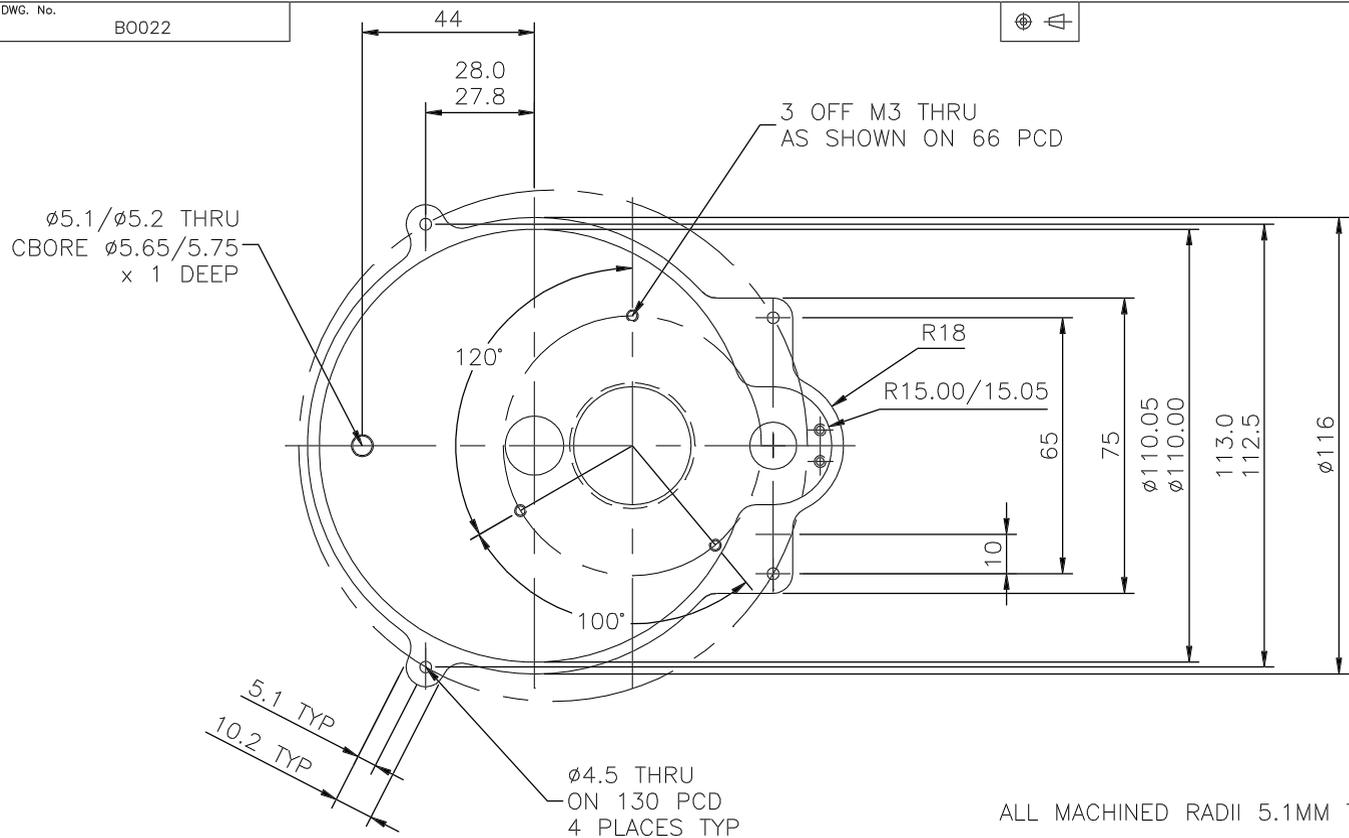
CABLE CLAMP BASE

CABLE CLAMP PLATE

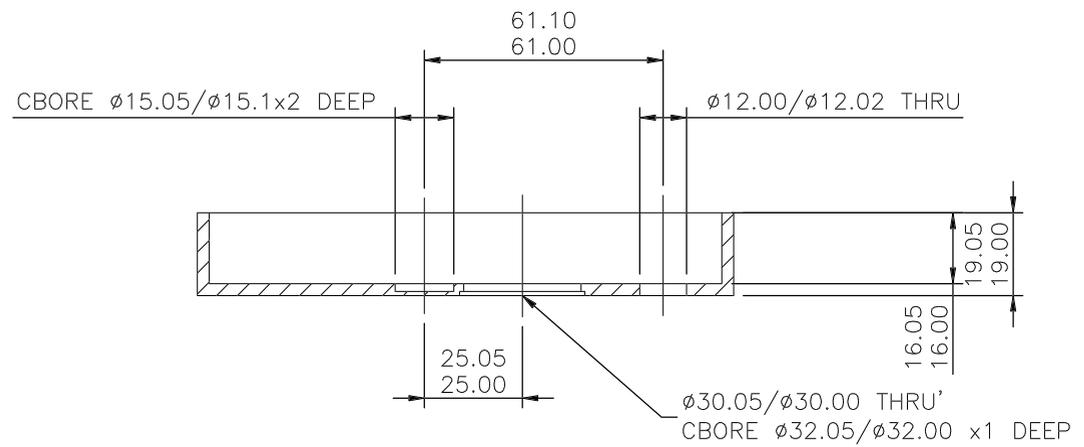
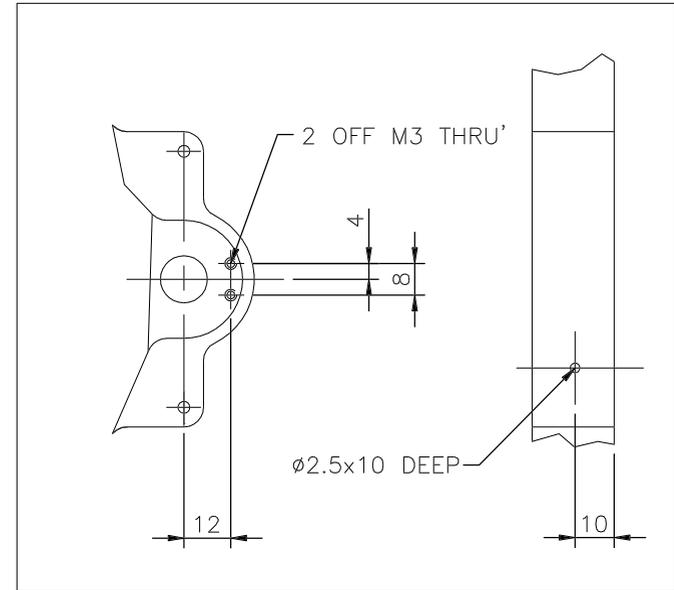
DWG. No. B0016



							UNLESS OTHERWISE STATED	MATERIAL	 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM				
							DIMENSIONS ARE IN mm GENERAL TOLERANCE: ± 0.25 ANGULAR TOLERANCE: ± - SURFACE FINISH: 3.2/ (MICRONS)	BS1470 6082 T6 1.6 THK					
							REMOVE ALL SHARP EDGES	FINISH	TITLE				
								-	NEAR INFRA-RED CAMERA MOLECULAR SIEVE BACK PLATE				
1	FOR MANUFACTURE	IPB			RC	10/02/97	USED ON	ORIGINAL SHEET	LOCATION	DWG. No.		REV	
REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE	B0010	A3	BO	B0016		1	
ISSUE DESCRIPTION							DO NOT SCALE THIS DRAWING	ORIGINAL SCALE	1:1		SHEET 1 OF 1		

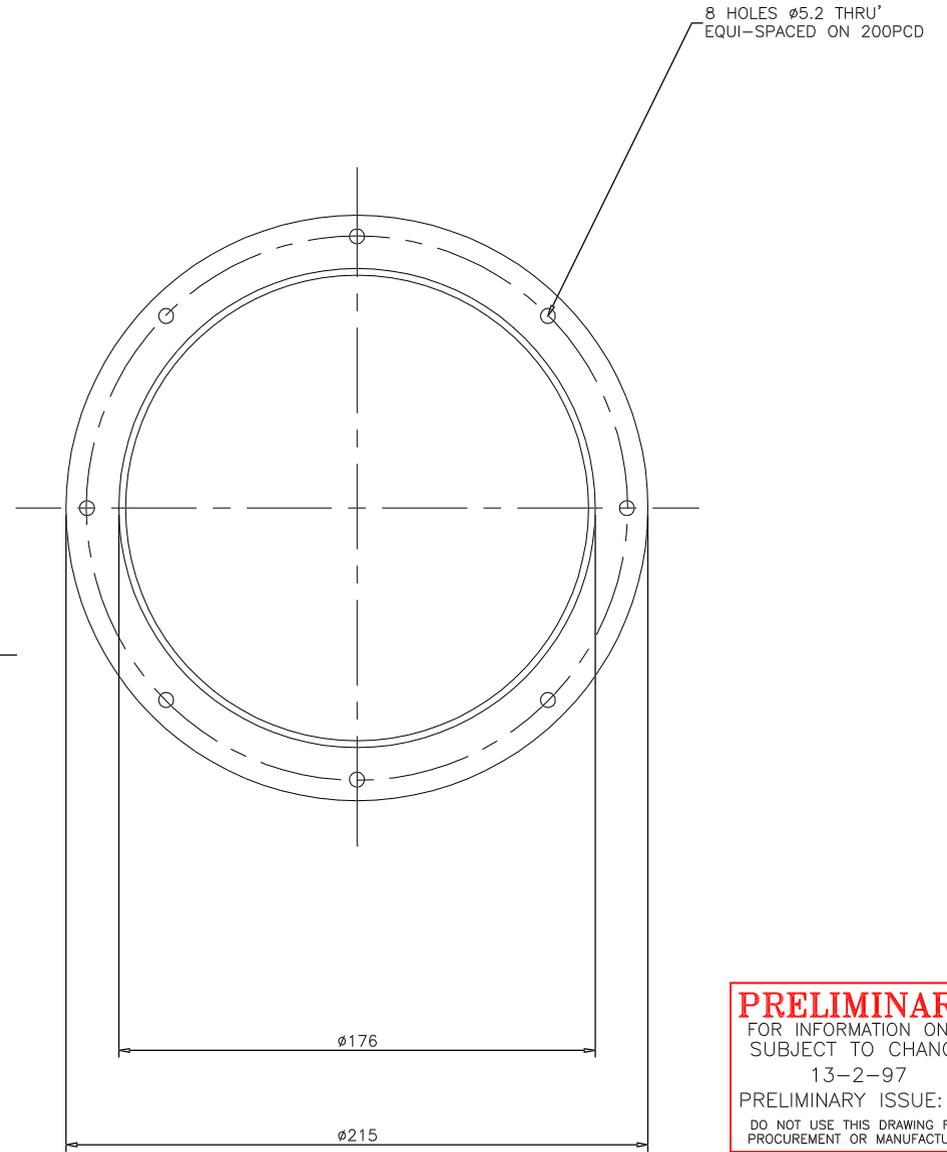
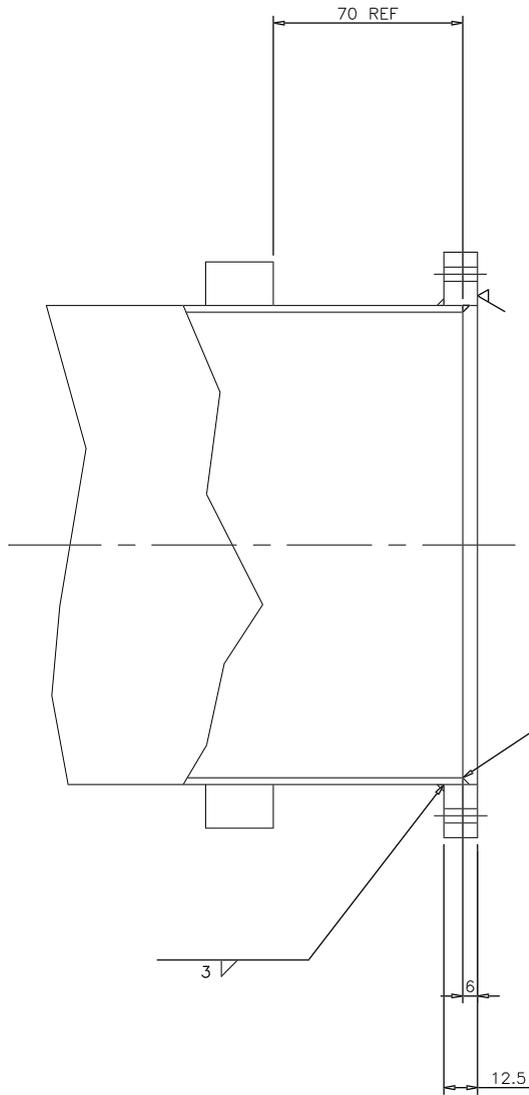


ALL MACHINED RADII 5.1MM TYP



UNLESS OTHERWISE STATED						
DIMENSIONS ARE IN mm						
GENERAL TOLERANCE: ± 0.25						
ANGULAR TOLERANCE: ± 0.2						
SURFACE FINISH: 3.2/ (MICRONS) $\sqrt{}$						
REMOVE ALL SHARP EDGES						
DO NOT SCALE THIS DRAWING						
1	FOR MANUFACTURE	IPB			RC	08/04/97
REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE
ISSUE DESCRIPTION						

MATERIAL	BS1470 6082 TF 25mm THK	
FINISH	AS M/C'D	
USED ON	B0020	
 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM		
 PPARC		
TITLE NEAR INFRA-RED CAMERA FILTER WHEEL UNIT HOUSING		
ORIGINAL SHEET	LOCATION	DWG. No.
A2	BO	B0022
ORIGINAL SCALE	1:1	
SHEET 1 OF 1		REV 1



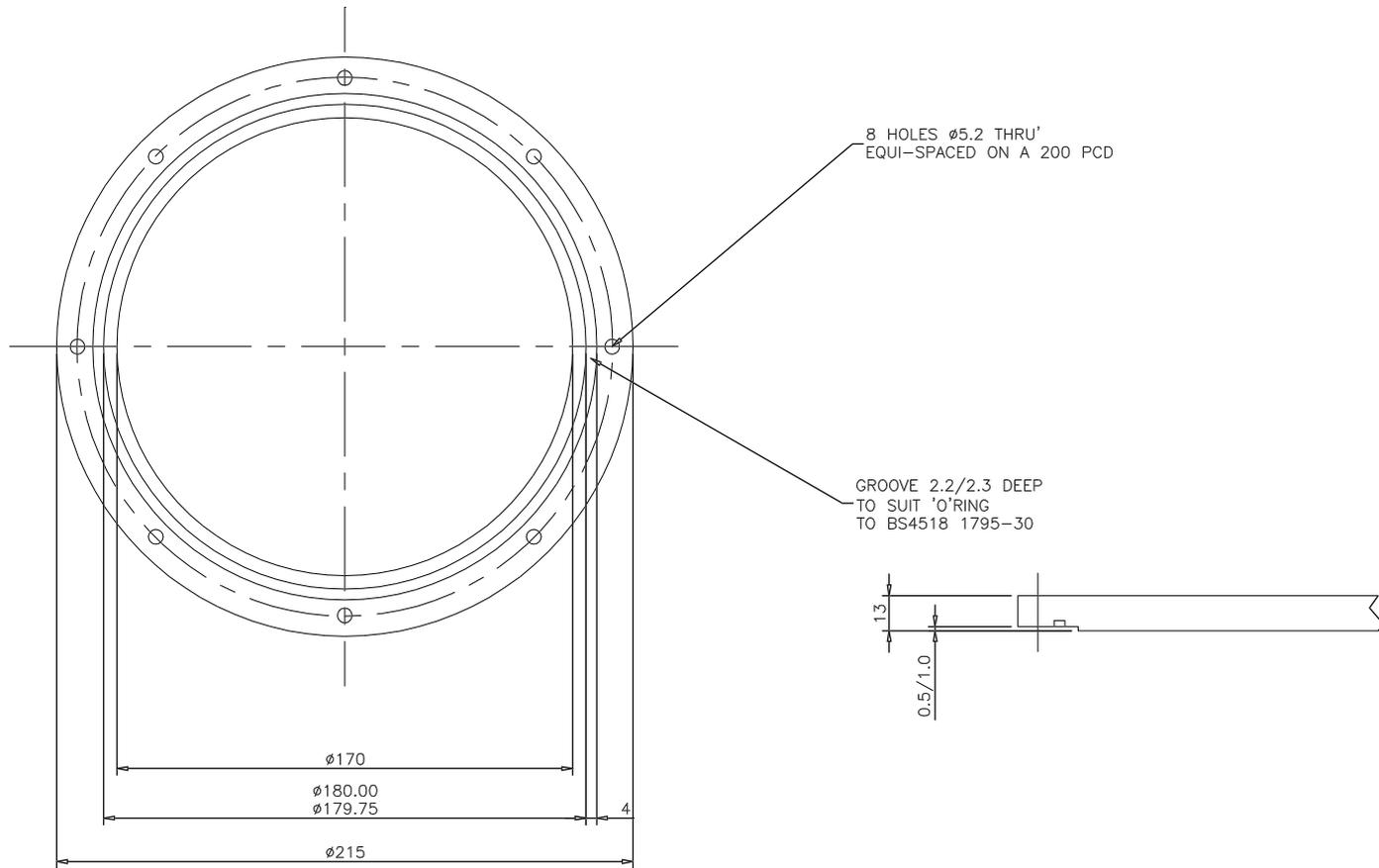
PRELIMINARY
 FOR INFORMATION ONLY
 SUBJECT TO CHANGE
 13-2-97
 PRELIMINARY ISSUE: 1
 DO NOT USE THIS DRAWING FOR
 PROCUREMENT OR MANUFACTURE.

REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE
1	FOR QUOTATION	IPB			RC	13/02/97
ISSUE DESCRIPTION						

UNLESS OTHERWISE STATED
 DIMENSIONS ARE IN mm
 GENERAL TOLERANCE: ± 0.25
 ANGULAR TOLERANCE: ± -
 SURFACE FINISH: 3.2/
 (MICRONS)
 REMOVE ALL SHARP EDGES
 DO NOT SCALE THIS DRAWING

MATERIAL
 BS1470 5083'0'
 FINISH -
 USED ON

		ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM			
TITLE NEAR INFRA-RED CAMERA TEST DEWER MODIFICATIONS					
ORIGINAL SHEET A1	LOCATION BO	DWG. No. B0003		REV 1	
ORIGINAL SCALE 1:1				SHEET 1 OF 1	

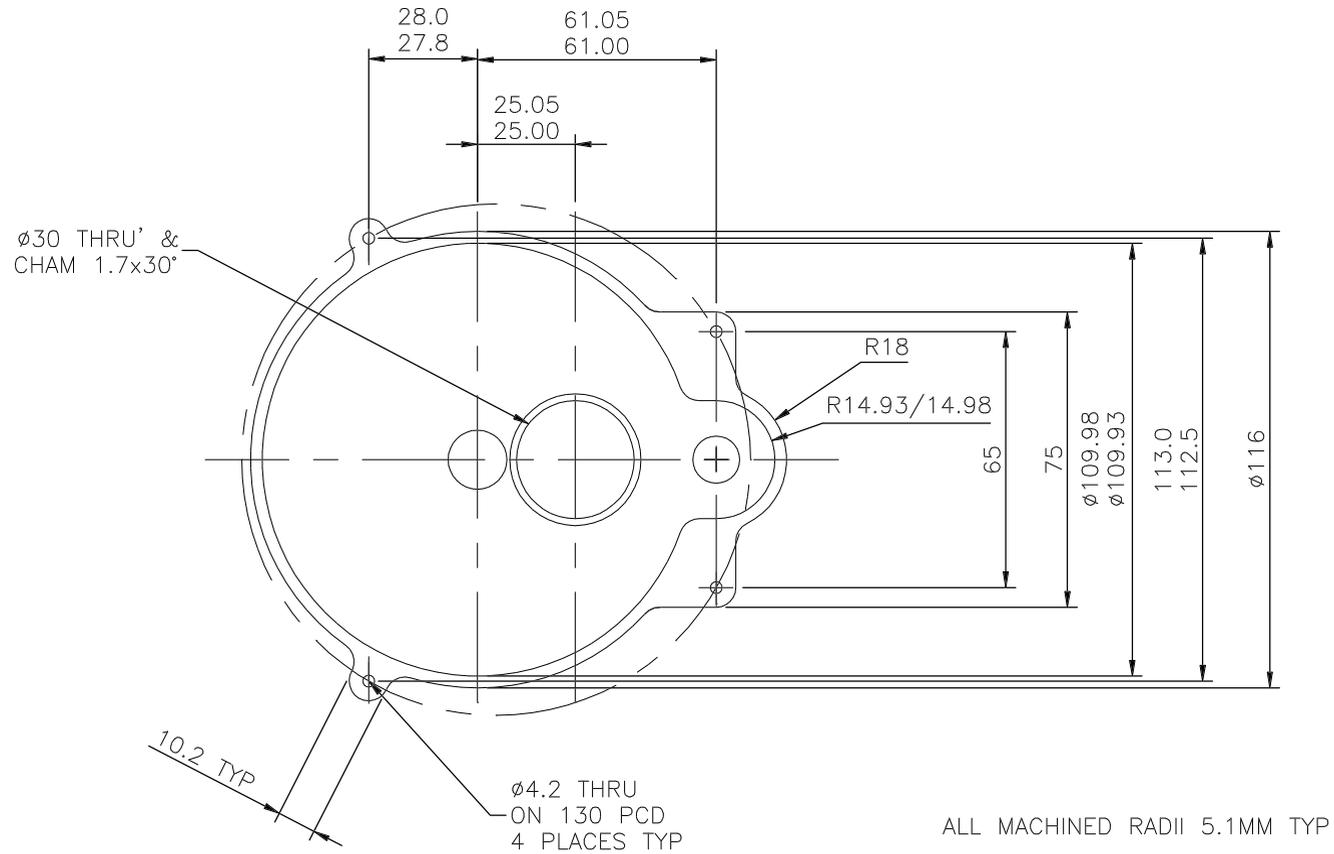


REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE
1	FOR MANUFACTURE	IPB			ST	03/03/97
ISSUE DESCRIPTION						

UNLESS OTHERWISE STATED
 DIMENSIONS ARE IN mm
 GENERAL TOLERANCE: ± 0.25
 ANGULAR TOLERANCE: ± -
 SURFACE FINISH: 3.2/
 (MICRONS)
 REMOVE ALL SHARP EDGES
 DO NOT SCALE THIS DRAWING

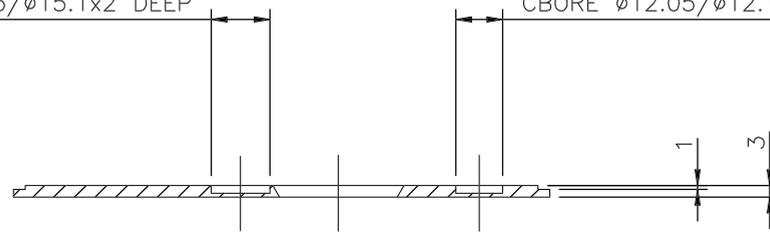
MATERIAL
 BS1470 5083'0'
 FINISH
 -
 USED ON

		ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM			
TITLE NEAR INFRA-RED CAMERA TEST CAMERA COOLING FLANGE					
ORIGINAL SHEET A1	LOCATION BO	DWG. No. B0004	REV 1		
ORIGINAL SCALE 1:1				SHEET 1 OF 1	



CBORE $\phi 15.05/\phi 15.1 \times 2$ DEEP

CBORE $\phi 12.05/\phi 12.10 \times 2$ DEEP

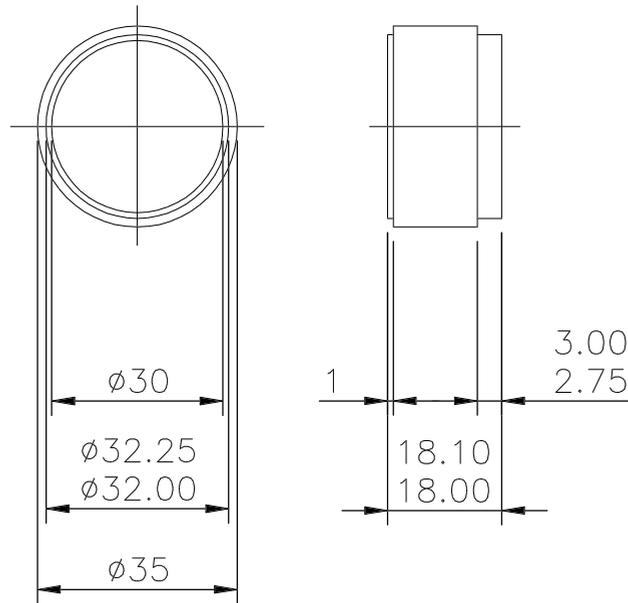
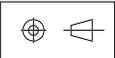


UNLESS OTHERWISE STATED						
DIMENSIONS ARE IN mm						
GENERAL TOLERANCE: ± 0.25						
ANGULAR TOLERANCE: ± 0.2						
SURFACE FINISH: 3.2/ (MICRONS) $\sqrt{\quad}$						
REMOVE ALL SHARP EDGES						
DO NOT SCALE THIS DRAWING						

MATERIAL	BS1470 6082 TF 3mm THK
FINISH	AS M/C'D
USED ON	B0020

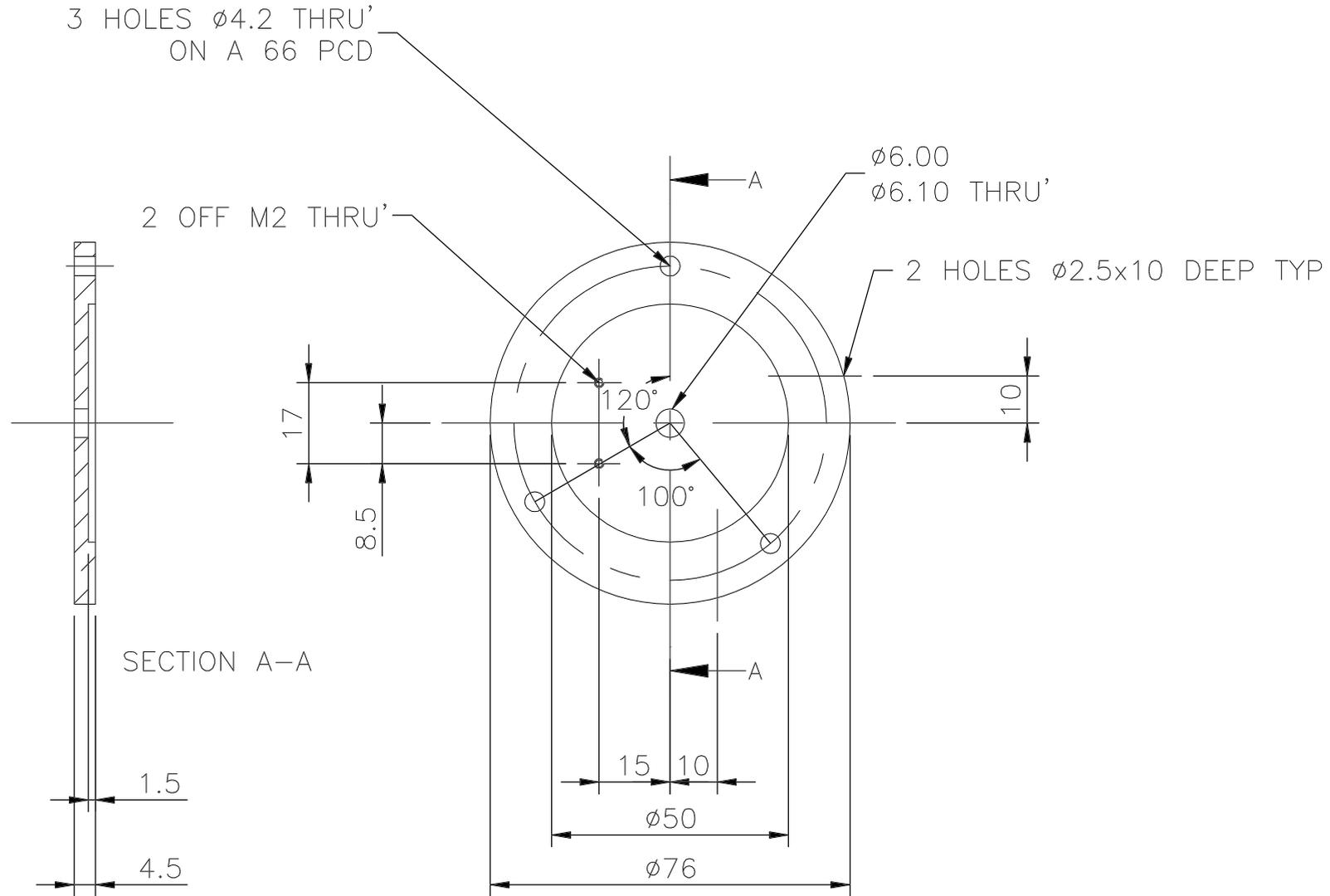
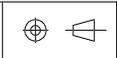
 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM		PPARC
TITLE NEAR INFRA-RED CAMERA FILTER WHEEL UNIT COVER PLATE		
ORIGINAL SHEET	LOCATION	DWG. No.
A2	BO	BO023
ORIGINAL SCALE	1:1	
SHEET 1 OF 1		REV 1

DWG. No. B0031



							UNLESS OTHERWISE STATED	MATERIAL	 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM 			
							DIMENSIONS ARE IN mm	DELTRIN				
							GENERAL TOLERANCE: ± 0.25	-	TITLE			
							ANGULAR TOLERANCE: $\pm -$	FINISH	NEAR INFRA-RED CAMERA			
							SURFACE FINISH: 3.2/ (MICRONS) \checkmark	-	OPTICAL BAFFLE TUBE			
							REMOVE ALL SHARP EDGES	USED ON	ORIGINAL SHEET	LOCATION	DWG. No.	REV
1	FOR MANUFACTURE	IPB			RC	08/04/97	B0030	A3	BO	B0031	1	
REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE		ORIGINAL SCALE	1:1		SHEET 1 OF 1	
ISSUE DESCRIPTION							DO NOT SCALE THIS DRAWING					

DWG. No. B0033



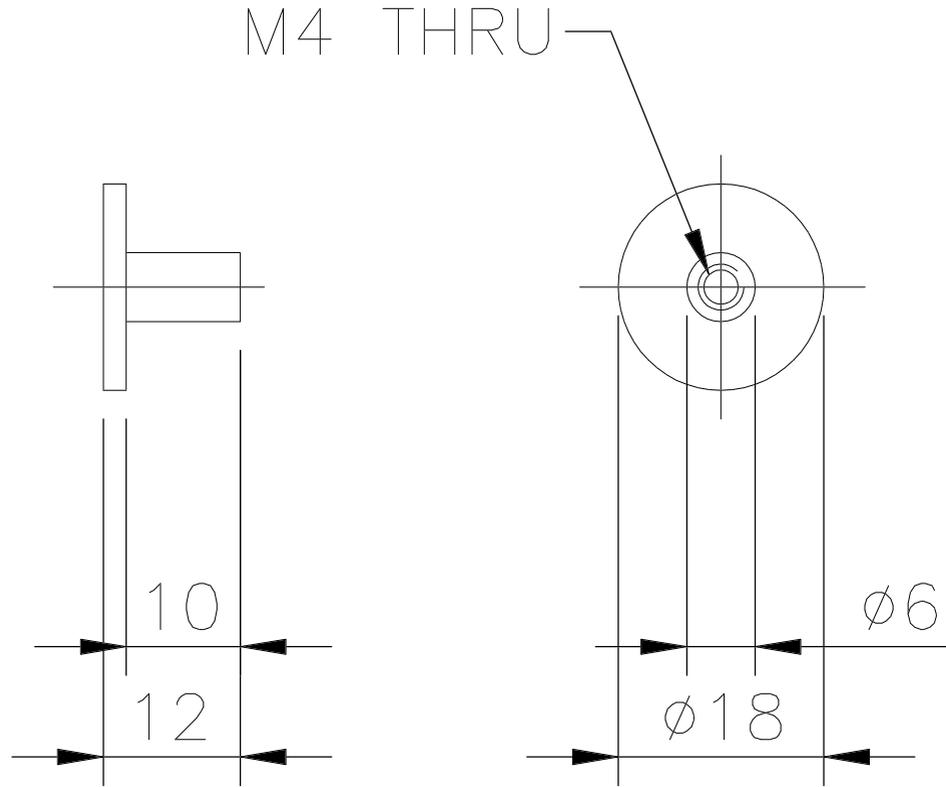
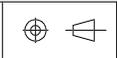
REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE
1	FOR MANUFACTURE	IPB			RC	15/04/97
ISSUE DESCRIPTION						

UNLESS OTHERWISE STATED
 DIMENSIONS ARE IN mm
 GENERAL TOLERANCE: ± 0.2
 ANGULAR TOLERANCE: ± -
 SURFACE FINISH: 3.2/
 (MICRONS)
 REMOVE ALL SHARP EDGES
 DO NOT SCALE THIS DRAWING

MATERIAL
 BS1470 6082 TF
 5mm THK PLT
 FINISH -
 USED ON B0030

 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM			
TITLE NEAR INFRA-RED CAMERA ARRAY MOUNT BACK PLATE			
ORIGINAL SHEET A3	LOCATION BO	DWG. No. B0033	REV 1
ORIGINAL SCALE 1:1	SHEET 1 OF 1		

DWG. No. B0034



REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE
1	FOR MANUFACTURE	IPB			RC	27/02/97
ISSUE DESCRIPTION						

UNLESS OTHERWISE STATED

DIMENSIONS ARE IN mm

GENERAL TOLERANCE: ± 0.2

ANGULAR TOLERANCE: ± -

SURFACE FINISH: 3.2/
(MICRONS) ✓

REMOVE ALL SHARP EDGES

DO NOT SCALE THIS DRAWING

MATERIAL
BS1470 6082 TF

FINISH
-

USED ON
B0030



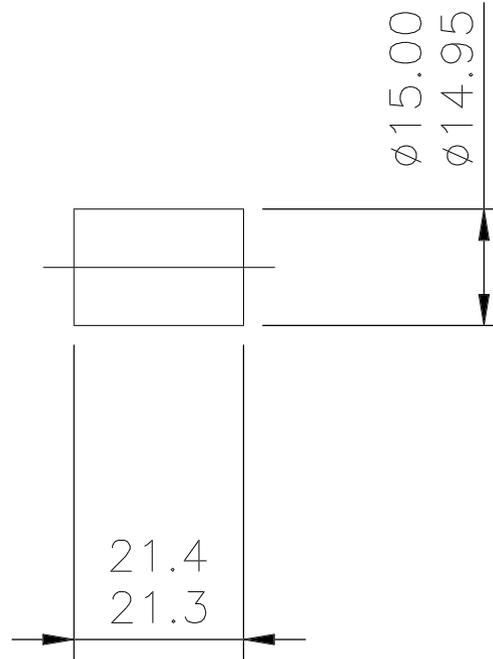
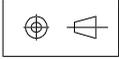
ROYAL GREENWICH OBSERVATORY

MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM



TITLE
NEAR INFRA-RED CAMERA
ARRAY SPRING PLATE

ORIGINAL SHEET A3	LOCATION BO	DWG. No. B0034	REV 1
ORIGINAL SCALE 2:1			SHEET 1 OF 1



REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE
1	FOR MANUFACTURE	IPB			RC	07/04/97
ISSUE DESCRIPTION						

UNLESS OTHERWISE STATED

DIMENSIONS ARE IN mm

GENERAL TOLERANCE: ± 0.2

ANGULAR TOLERANCE: $\pm -$

SURFACE FINISH: 1.6/
(MICRONS) ✓

REMOVE ALL SHARP EDGES

DO NOT SCALE THIS DRAWING

MATERIAL
BS1470 6082 TF
-

FINISH
-

USED ON
B0020

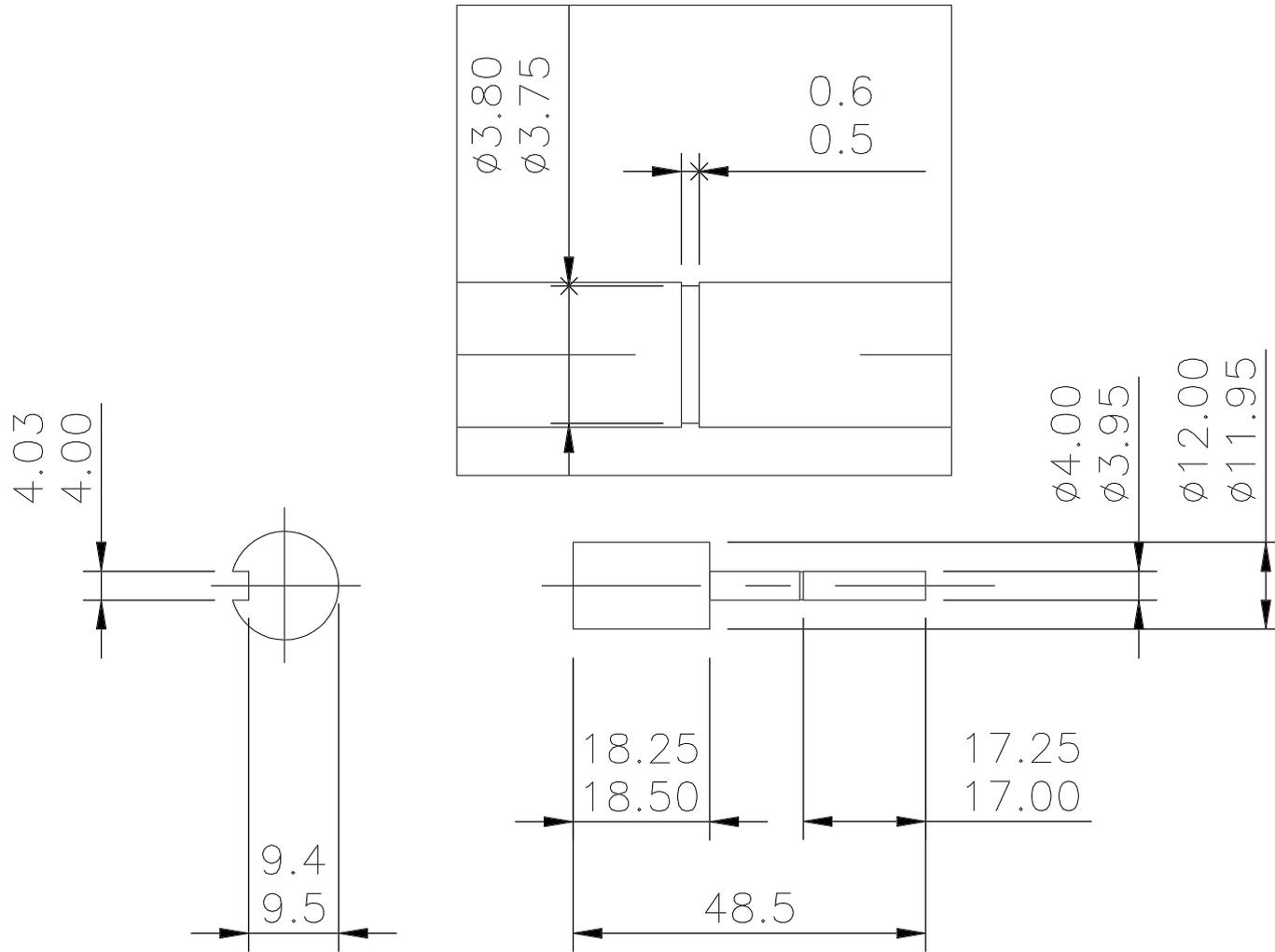
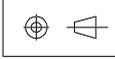


ROYAL GREENWICH OBSERVATORY
MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM



TITLE
NEAR INFRA-RED CAMERA
GEAR SPINDLE

ORIGINAL SHEET A4	LOCATION BO	DWG. No. B0024	REV 1
ORIGINAL SCALE 1:1	SHEET 1 OF 1		



REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE
1	FOR MANUFACTURE	IPB			RC	07/04/97
ISSUE DESCRIPTION						

UNLESS OTHERWISE STATED

DIMENSIONS ARE IN mm

GENERAL TOLERANCE: ± 0.2

ANGULAR TOLERANCE: $\pm -$

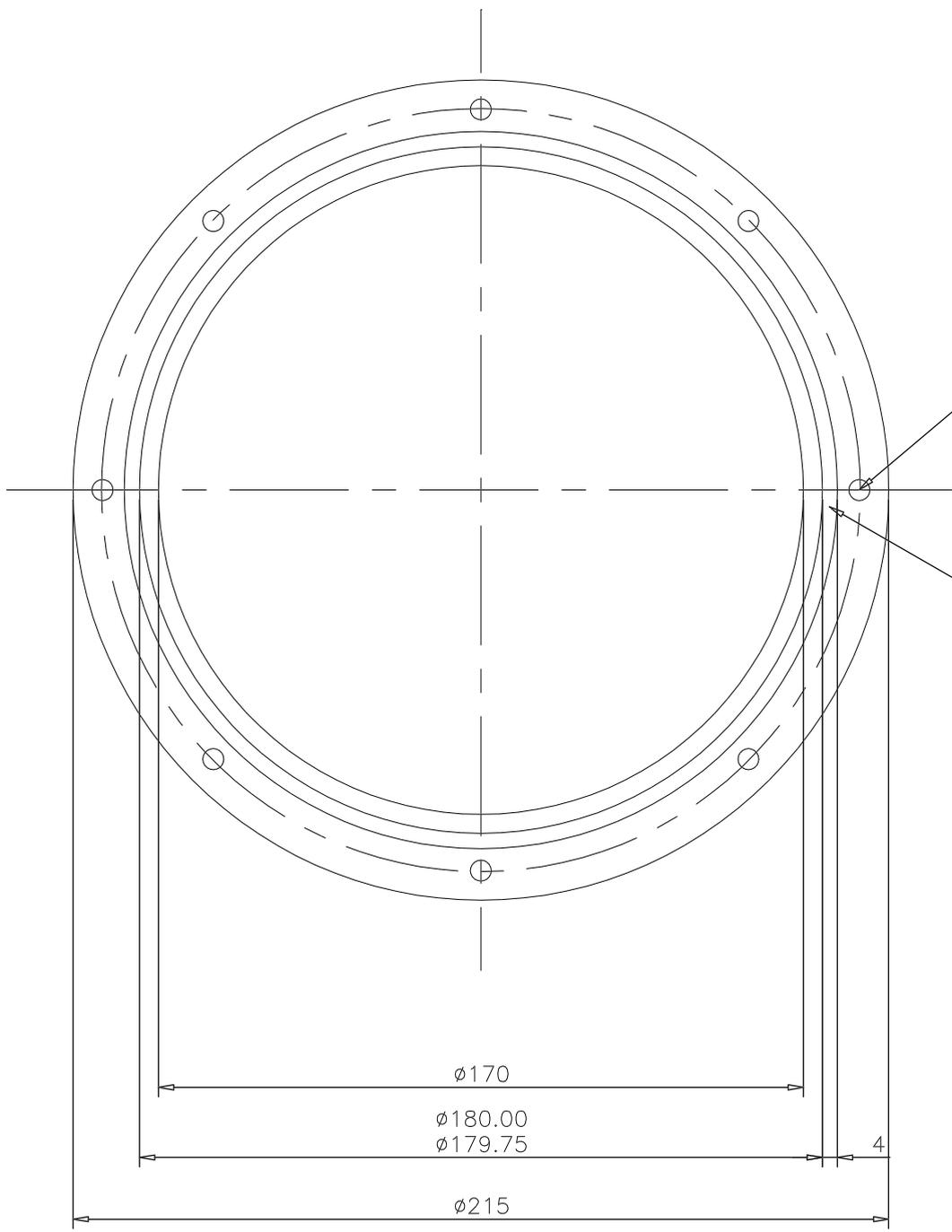
SURFACE FINISH: 1.6/
(MICRONS) ✓

REMOVE ALL SHARP EDGES

DO NOT SCALE THIS DRAWING

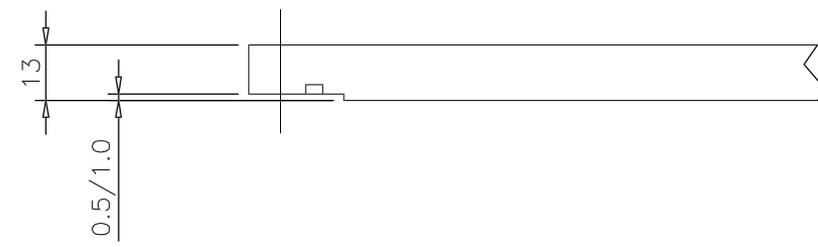
MATERIAL	BS1470 6082 TF
FINISH	-
USED ON	B0020

 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM			
TITLE			
NEAR INFRA-RED CAMERA SPUR GEAR SPINDLE			
ORIGINAL SHEET	LOCATION	DWG. No.	REV
A4	BO	B0025	1
ORIGINAL SCALE	1:1	SHEET 1 OF 1	



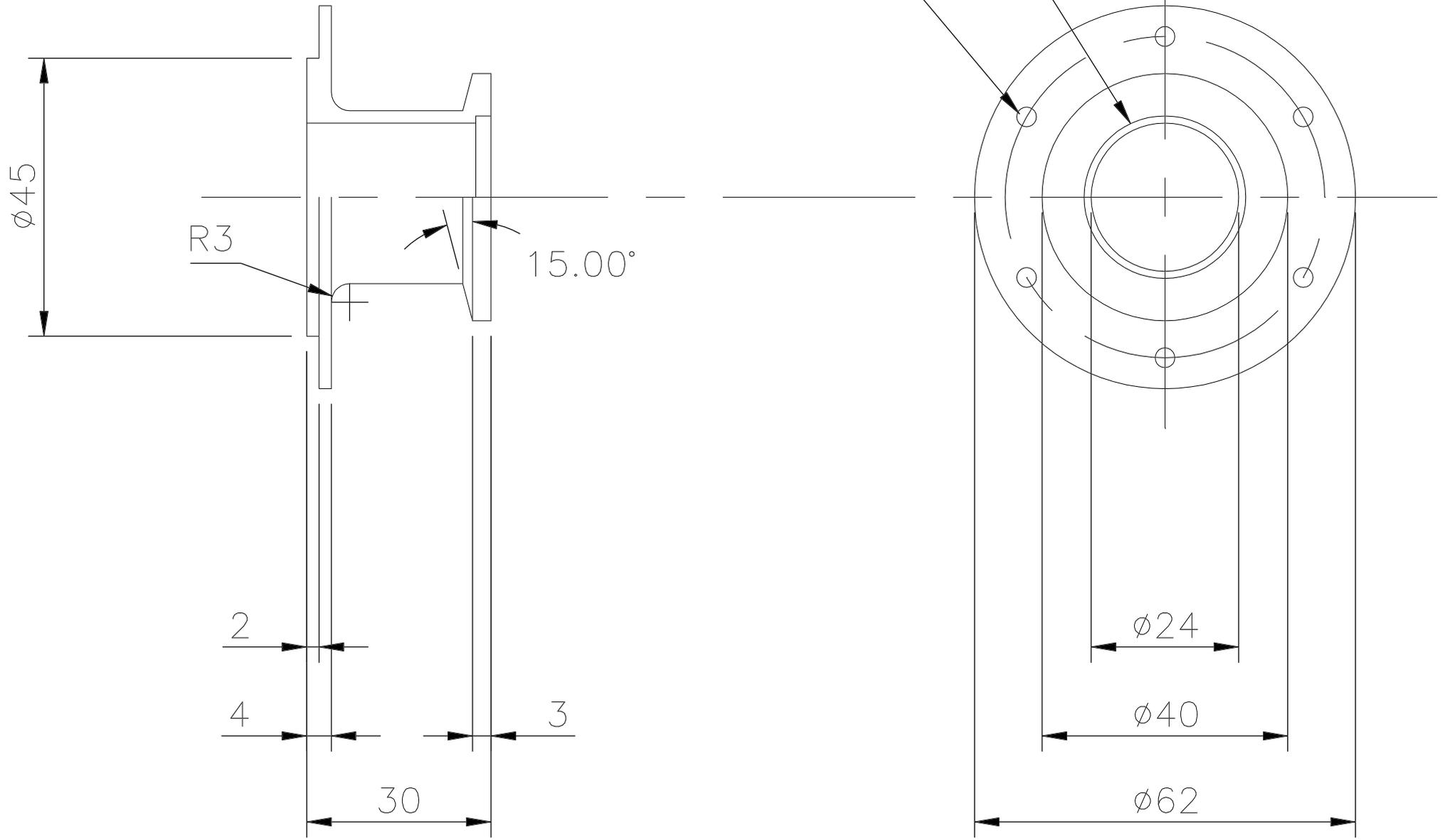
8 HOLES $\phi 5.2$ THRU'
EQUI-SPACED ON A 200 PCD

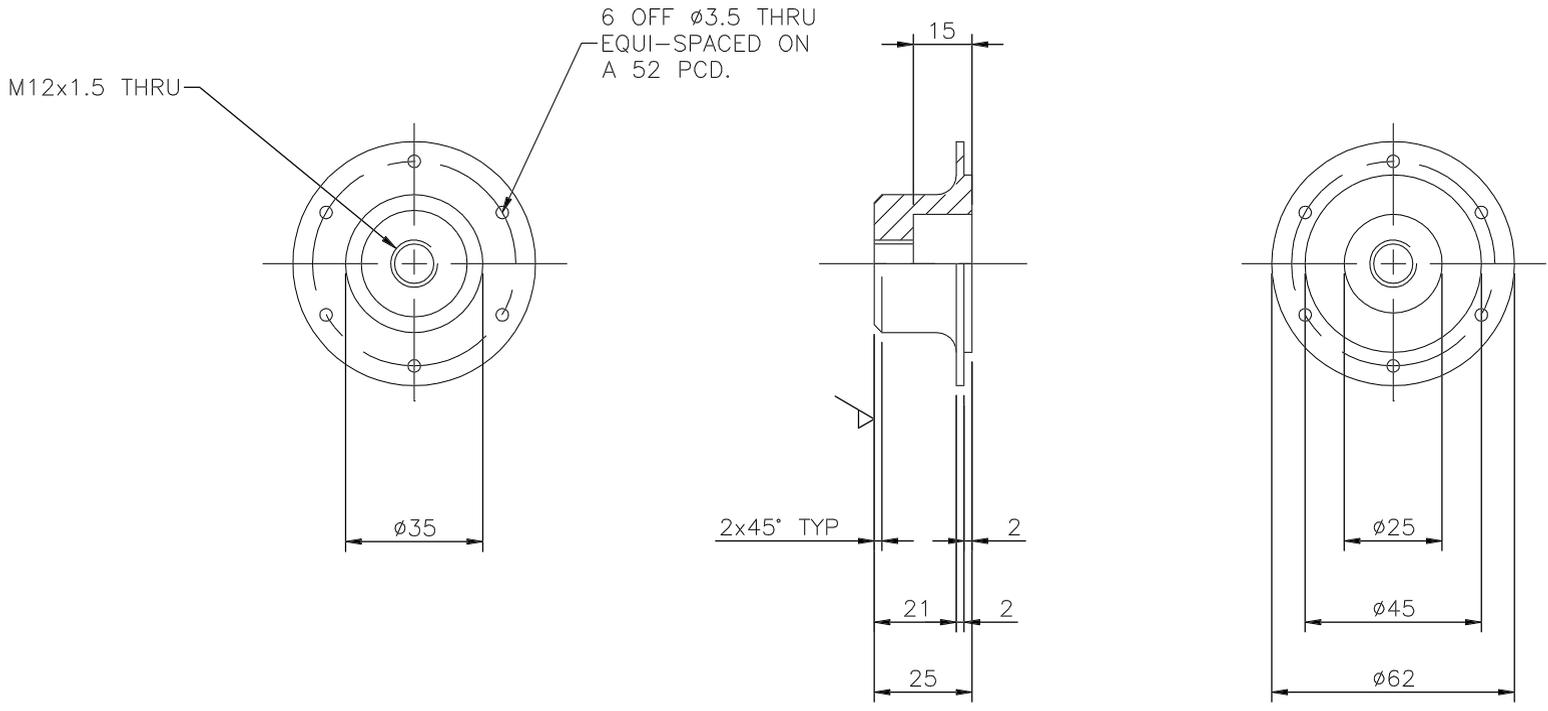
GROOVE 2.2/2.3 DEEP
TO SUIT 'O'RING
TO BS4518 1795-30



CBORE $\phi 26.2 \times 2.5$ DEEP

6 HOLES $\phi 3.4$
THRU' ON 52 PCD



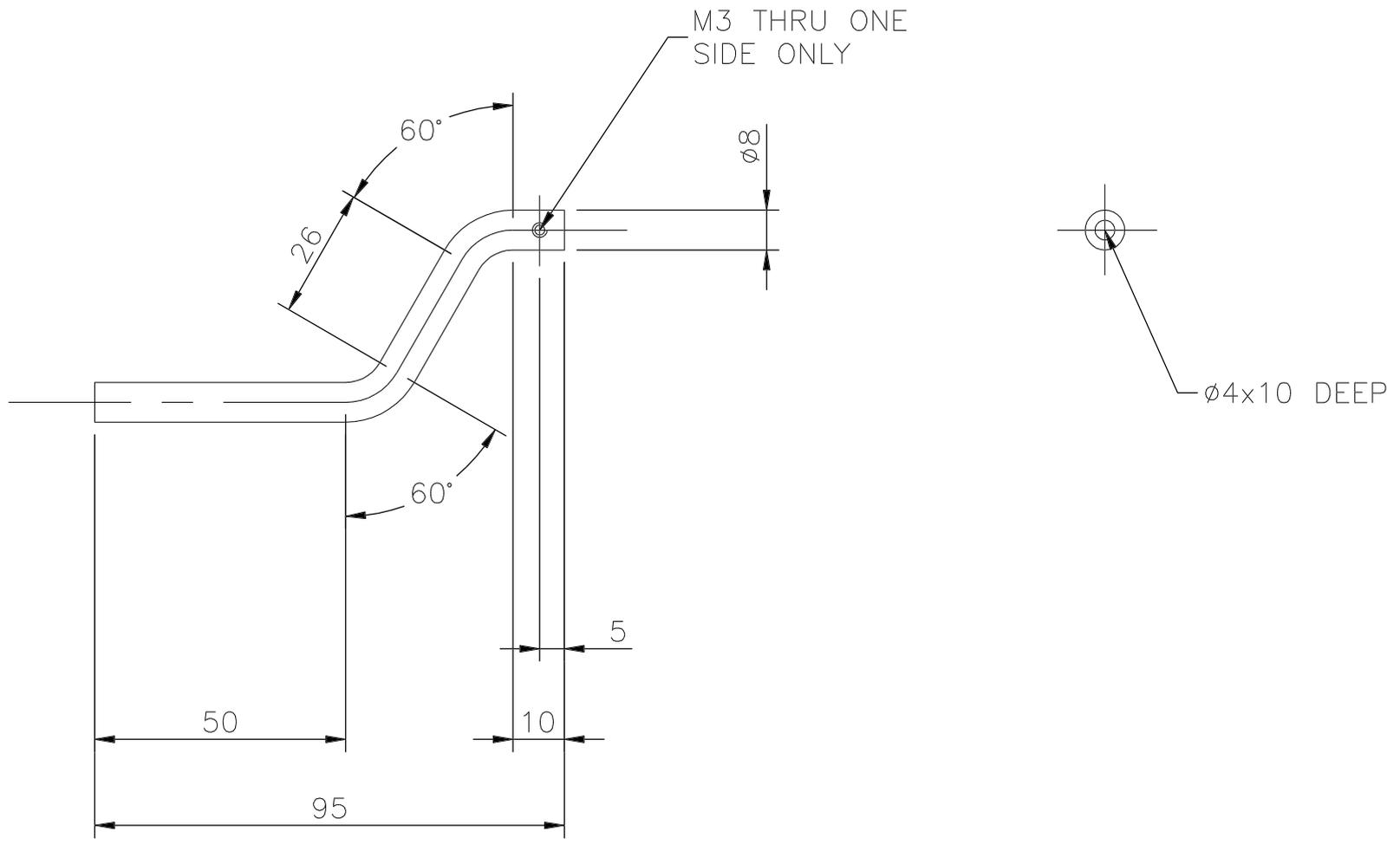
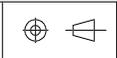


										UNLESS OTHERWISE STATED
										DIMENSIONS ARE IN mm
										GENERAL TOLERANCE: ± 0.2
										ANGULAR TOLERANCE: $\pm -$
										SURFACE FINISH: 3.2/ $\sqrt{\quad}$ (MICRONS)
1	FOR MANUFACTURE	IPB			RC	10/04/97				REMOVE ALL SHARP EDGES
REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE				
										DO NOT SCALE THIS DRAWING

MATERIAL	BS1470 5083 'O'
FINISH	-
USED ON	B0010

 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM		PPARC	
TITLE NEAR INFRA RED CAMERA PORT PLATE			
ORIGINAL SHEET	LOCATION	DWG. No.	REV
A2	KP	B0027	1
ORIGINAL SCALE	1:1		SHEET 1 OF 1

DWG. No. B0028



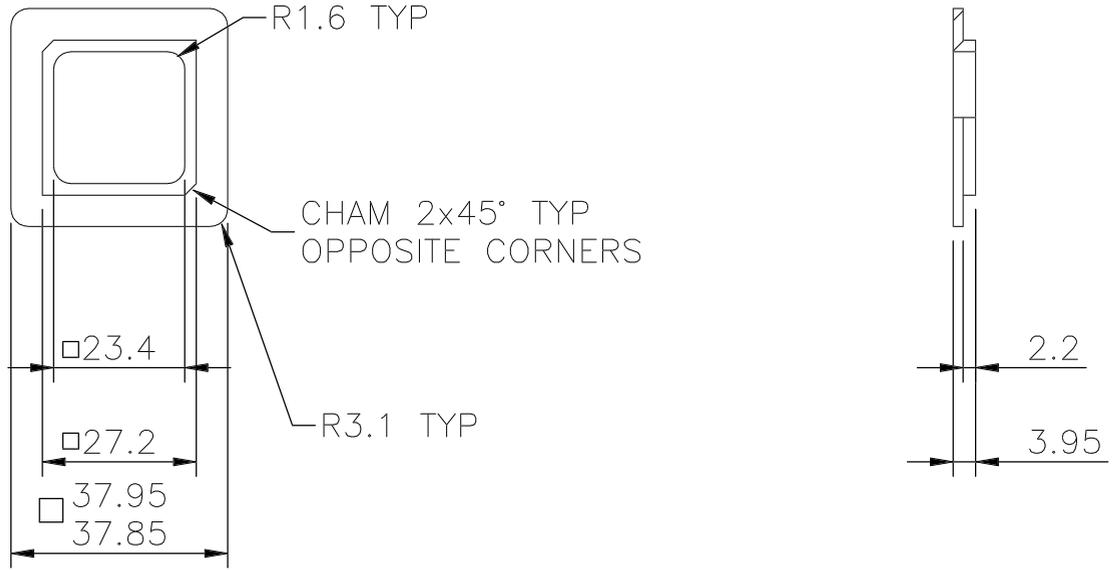
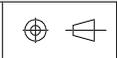
REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE
1	FOR MANUFACTURE	IPB			ST	10/04/97
ISSUE DESCRIPTION						

UNLESS OTHERWISE STATED
 DIMENSIONS ARE IN mm
 GENERAL TOLERANCE: ± 0.2
 ANGULAR TOLERANCE: ± -
 SURFACE FINISH: 3.2/
 (MICRONS)
 REMOVE ALL SHARP EDGES
 DO NOT SCALE THIS DRAWING

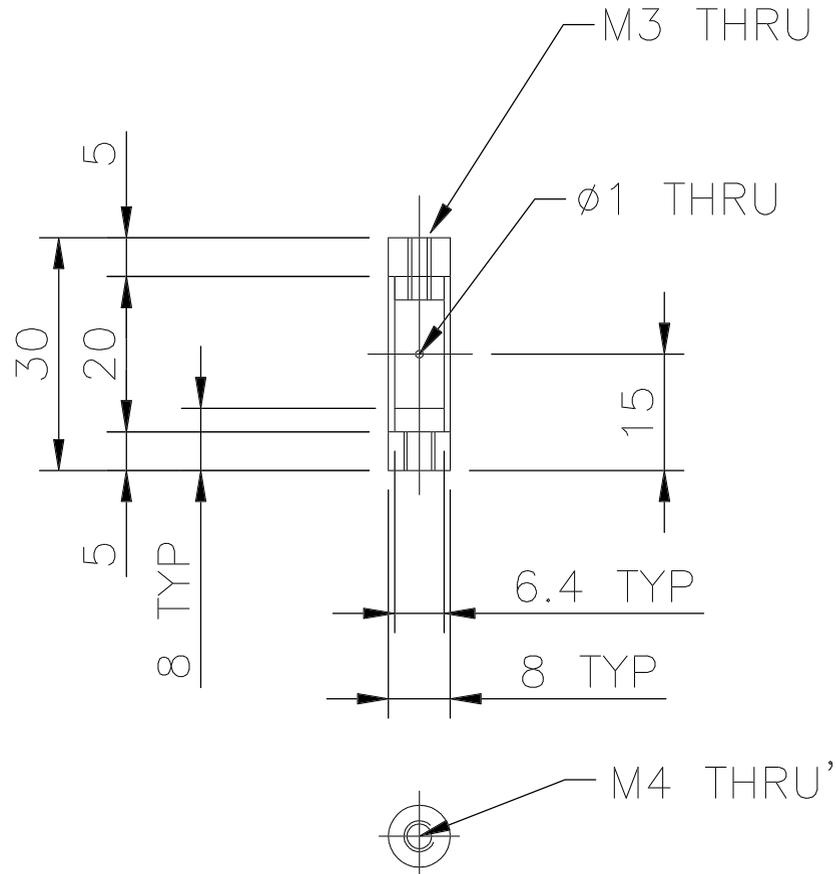
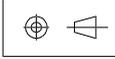
MATERIAL
 BS970 304 S11
 FINISH
 -
 USED ON
 B0010

		ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM			
TITLE		NEAR INFRA-RED CAMERA HANDLE			
ORIGINAL SHEET	LOCATION	DWG. No.		REV	
A3	BO	B0028		1	
ORIGINAL SCALE	1:1			SHEET 1 OF 1	

DWG. No. B0035



							UNLESS OTHERWISE STATED	MATERIAL	 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM 			
							DIMENSIONS ARE IN mm	DELRIN				
							GENERAL TOLERANCE: ± 0.2	FINISH	TITLE			
							ANGULAR TOLERANCE: ± -	-	NEAR INFRA RED CAMERA			
							SURFACE FINISH: 3.2/√ (MICRONS)		DELRIN WASHER			
							REMOVE ALL SHARP EDGES	USED ON	ORIGINAL SHEET	LOCATION	DWG. No.	REV
1	FOR MANUFACTURE	IPB			RC	17/04/97	B0010	A3	BO	B0035	1	
REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE		ORIGINAL SCALE	1:1		SHEET 1 OF 1	
ISSUE DESCRIPTION							DO NOT SCALE THIS DRAWING					



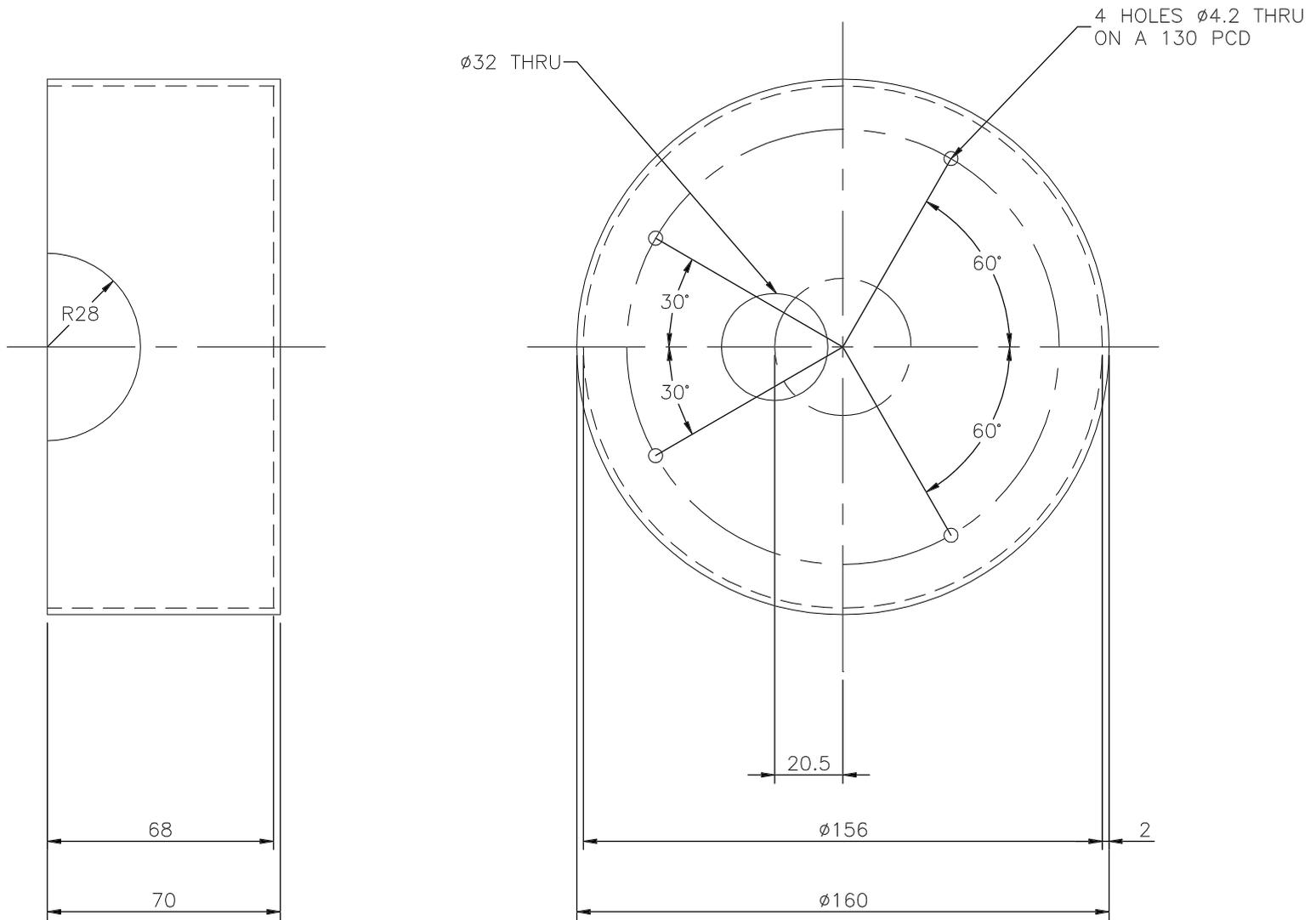
NOTE :
 1. PARTS TO BE TRANSITION FIT
 H7 n6
 2. MATL :
 TUBE - GRP
 ENDS - DELRIN

REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE
1	FOR MANUFACTURE	IPB			RC	18/04/97
ISSUE DESCRIPTION						

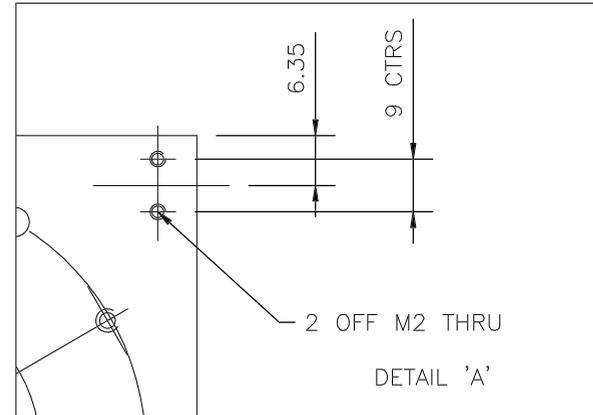
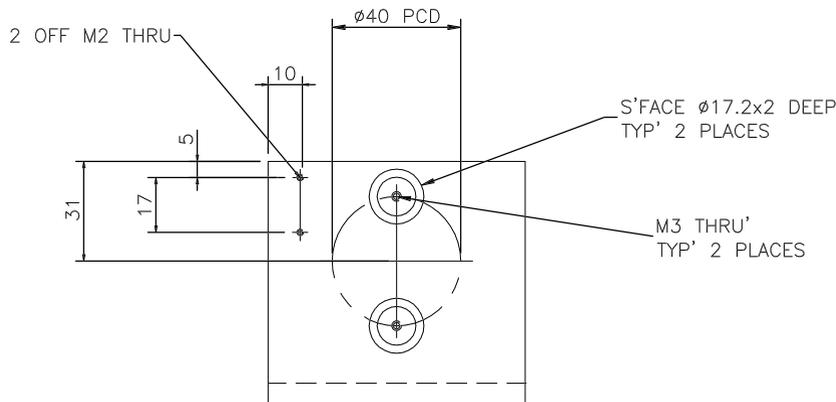
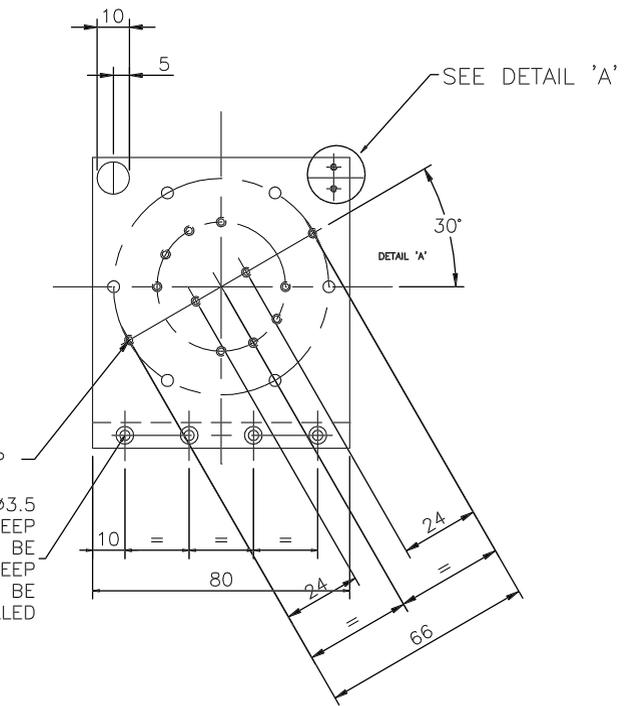
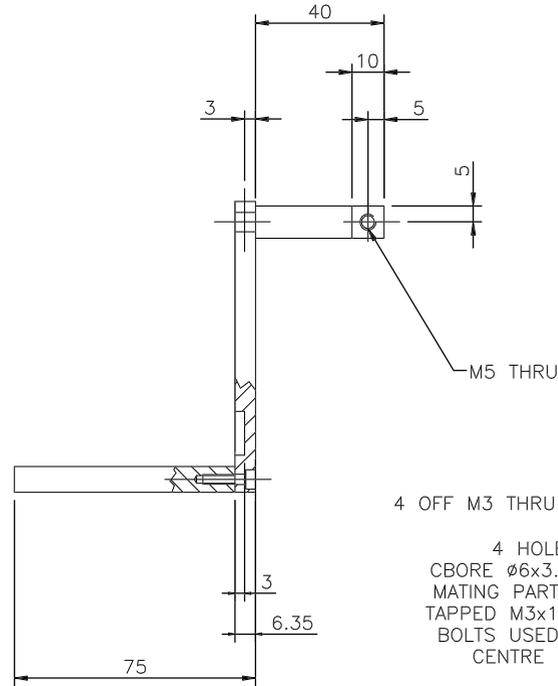
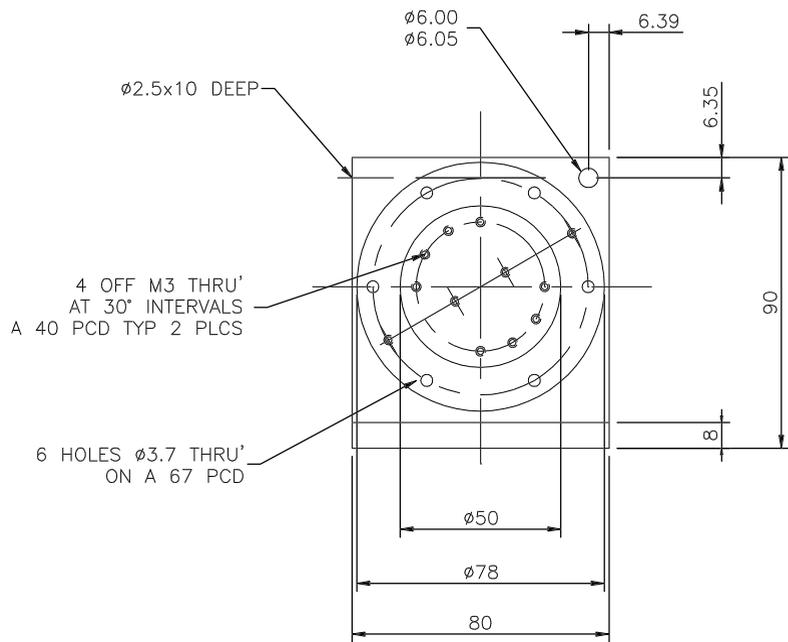
UNLESS OTHERWISE STATED
 DIMENSIONS ARE IN mm
 GENERAL TOLERANCE: ± 0.2
 ANGULAR TOLERANCE: ± -
 SURFACE FINISH: 3.2/
 (MICRONS)
 REMOVE ALL SHARP EDGES
 DO NOT SCALE THIS DRAWING

MATERIAL	SEE DRG.
FINISH	-
USED ON	B0010

 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM			
TITLE NEAR INFRA RED CAMERA THIN COOLING POSTS			
ORIGINAL SHEET A4	LOCATION BO	DWG. No. B0036	REV 1
ORIGINAL SCALE 1:1	SHEET 1 OF 1		



							UNLESS OTHERWISE STATED	MATERIAL	 ROYAL GREENWICH OBSERVATORY PPARC MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM			
							DIMENSIONS ARE IN mm	BS1470 6082 TF	TITLE			
							GENERAL TOLERANCE: ± 0.2	FINISH	NEAR INFRA RED CAMERA			
							ANGULAR TOLERANCE: ± -	POLISHED	RADIATION SHIELD			
							SURFACE FINISH: 3.2/	AFTER MACHINING	ORIGINAL SHEET	LOCATION	DWG. No.	REV
							(MICRONS)	USED ON	A2	BO	B0037	1
							REMOVE ALL SHARP EDGES	B0010	ORIGINAL SCALE	1:1	SHEET 1 OF 1	
1	FOR MANUFACTURE	IPB			RC	18/04/97	DO NOT SCALE THIS DRAWING					
REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE						
ISSUE DESCRIPTION												



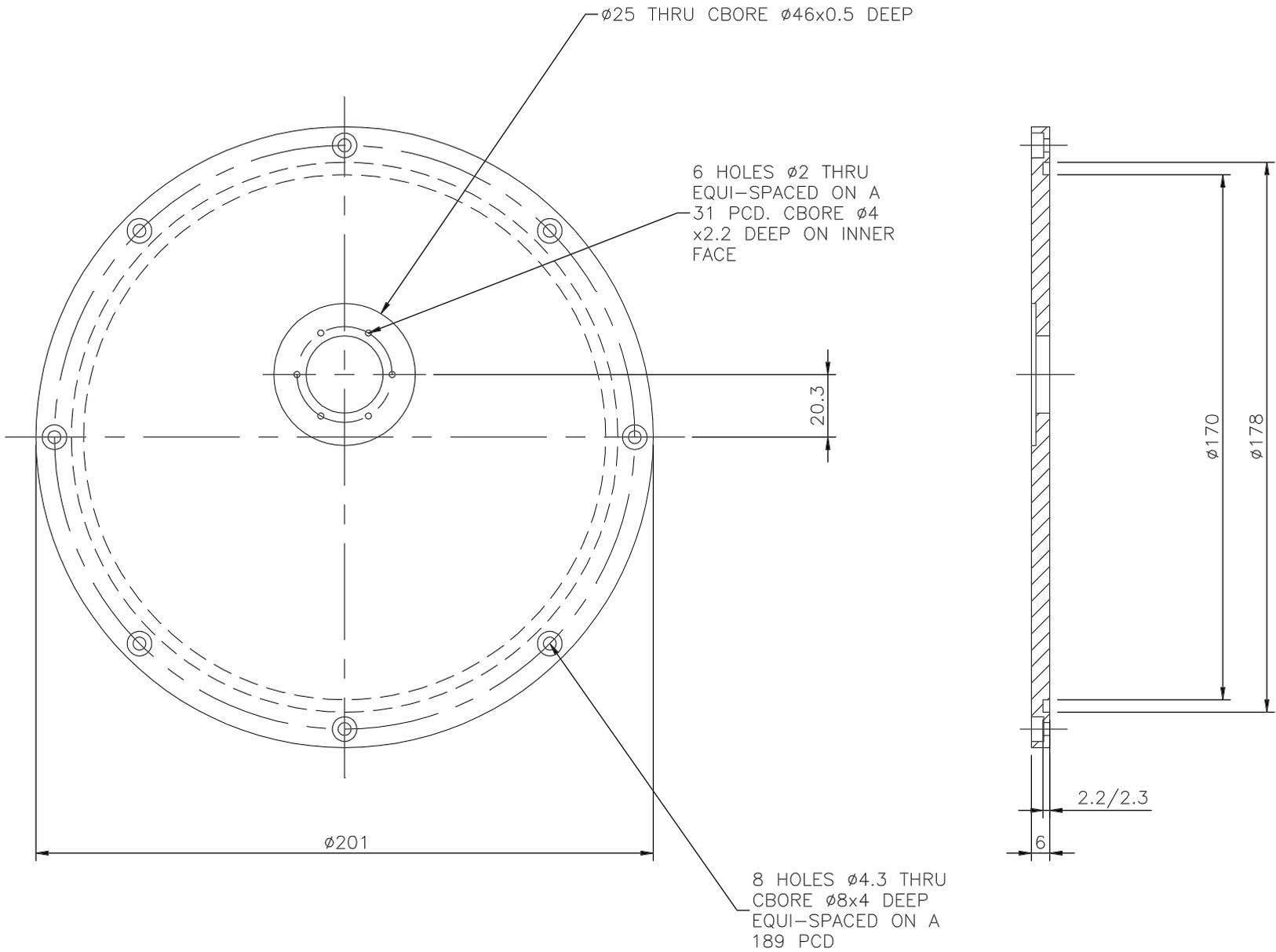
REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE
1	FOR MANUFACTURE	IPB			IS	08/04/97
2	HOLE Ø6 CHANGED TO Ø3.7	IPB			RC	15/05/97

UNLESS OTHERWISE STATED
 DIMENSIONS ARE IN mm
 GENERAL TOLERANCE: ± 0.25
 ANGULAR TOLERANCE: ± 0.2
 SURFACE FINISH: 3.2/
 (MICRONS)
 REMOVE ALL SHARP EDGES

DO NOT SCALE THIS DRAWING

MATERIAL	BS1470 6082 TF 6.35mm THK
FINISH	TBA
USED ON	80010

ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM		
TITLE		NEAR INFRA-RED CAMERA COLD FINGER ATTACHMENT
ORIGINAL SHEET	LOCATION	DWG. No.
A2	BO	BO012
ORIGINAL SCALE	1:1	
SHEET 1 OF 1		REV 2



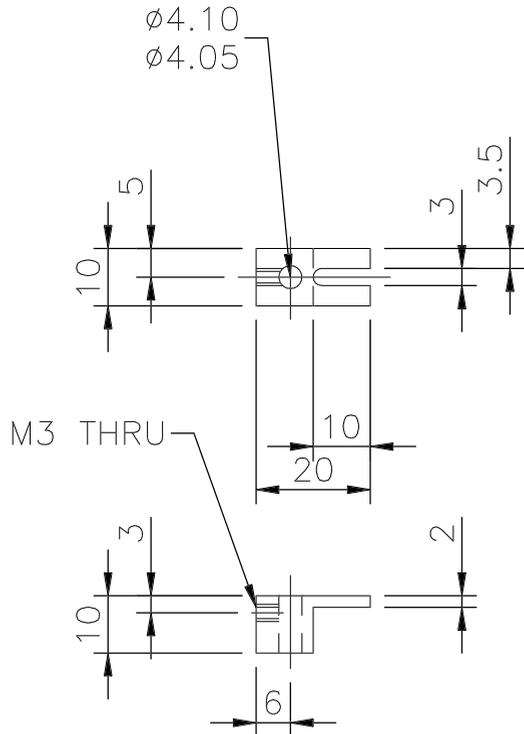
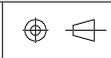
Ø25 THRU CBORE Ø46x0.5 DEEP

6 HOLES Ø2 THRU
EQUI-SPACED ON A
31 PCD. CBORE Ø4
x2.2 DEEP ON INNER
FACE

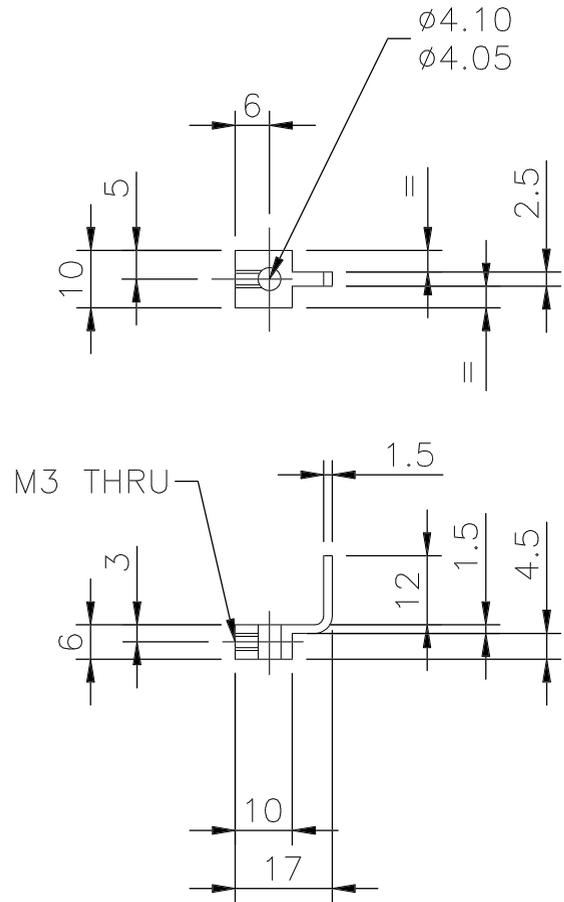
8 HOLES Ø4.3 THRU
CBORE Ø8x4 DEEP
EQUI-SPACED ON A
189 PCD

UNLESS OTHERWISE STATED						
DIMENSIONS ARE IN mm						
GENERAL TOLERANCE: ± 0.2						
ANGULAR TOLERANCE: ± -						
SURFACE FINISH: 3.2/ (MICRONS) ✓						
REMOVE ALL SHARP EDGES						
DO NOT SCALE THIS DRAWING						

MATERIAL BS1470 6082 TF		 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM			
FINISH INNER FACE SHOTBLAST & BLACK ANODISED		TITLE NEAR INFRA-RED CAMERA CALIBRATION PLATE			
USED ON	ORIGINAL SHEET A2	LOCATION KP	DWG. No. B0007	REV 1	
ORIGINAL SCALE 1:1				SHEET 1 OF 1	



COUPLING - WARM END



REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE
1	FOR MANUFACTURE	IPB			RC	23/06/97
ISSUE DESCRIPTION						

UNLESS OTHERWISE STATED
 DIMENSIONS ARE IN mm
 GENERAL TOLERANCE: ± 0.2
 ANGULAR TOLERANCE: ± -
 SURFACE FINISH: 3.2/
 (MICRONS)
 REMOVE ALL SHARP EDGES
 DO NOT SCALE THIS DRAWING

MATERIAL
 ST. STEEL 304/316
 FINISH
 -
 USED ON
 B0010

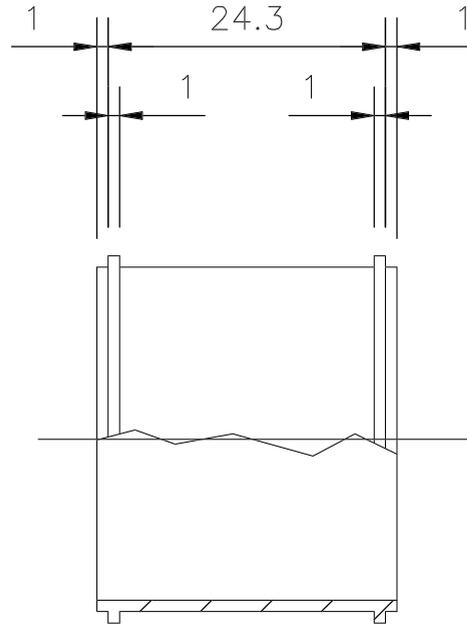
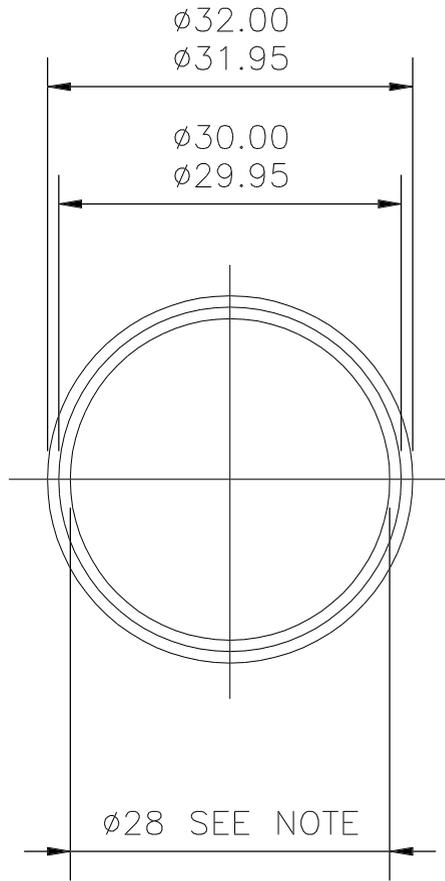
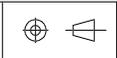


ROYAL GREENWICH OBSERVATORY
 MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM



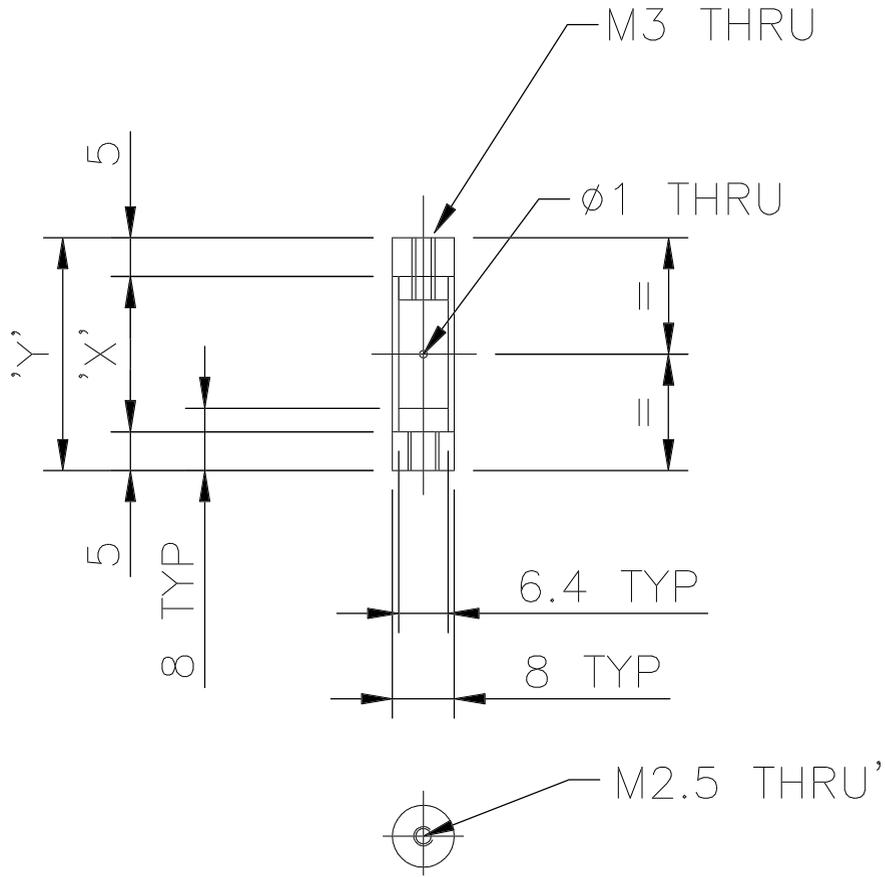
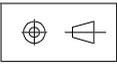
TITLE
 NEAR INFRA RED CAMERA
 COUPLING WARM END & COLD END

ORIGINAL SHEET A3	LOCATION KP	DWG. No. B0029	REV 1
ORIGINAL SCALE 1:1		SHEET 1 OF 1	



IDEAL DIMENSION IF THIS CANNOT BE ACHIEVED FOR THERMAL REASONS THE WALLS SHOULD BE AS THIN AS POSSIBLE.

							UNLESS OTHERWISE STATED	MATERIAL	 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM 			
							DIMENSIONS ARE IN mm	DELTRIN	TITLE NEAR INFRA-RED CAMERA OPTICAL BAFFLE TUBE			
							GENERAL TOLERANCE: ± 0.25	FINISH				
							ANGULAR TOLERANCE: $\pm -$	-				
							SURFACE FINISH: 3.2/ (MICRONS)					
							REMOVE ALL SHARP EDGES	USED ON	ORIGINAL SHEET	LOCATION	DWG. No.	REV
2	FOR MANUFACTURE	IPB			RC	25/06/97	B0030	A3	BO	B0031	2	
REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE		ORIGINAL SCALE	1:1		SHEET 1 OF 1	
ISSUE DESCRIPTION							DO NOT SCALE THIS DRAWING					



- NOTE :
- PARTS TO BE TRANSITION FIT
H7 n6
 - MATL :
TUBE – GRP
ENDS – DELRIN
 - QTY OF EACH SIZED POST
REQUIRED. AS TABLE BELOW

	2 OFF	2 OFF
DIMN 'X'	12.3	24.1
DIMN 'Y'	22.3	34.1

REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE
2	FOR MANUFACTURE	IPB			RC	30/06/97

UNLESS OTHERWISE STATED
 DIMENSIONS ARE IN mm
 GENERAL TOLERANCE: ± 0.2
 ANGULAR TOLERANCE: ± –
 SURFACE FINISH: 3.2/
 (MICRONS)
 REMOVE ALL SHARP EDGES
 DO NOT SCALE THIS DRAWING

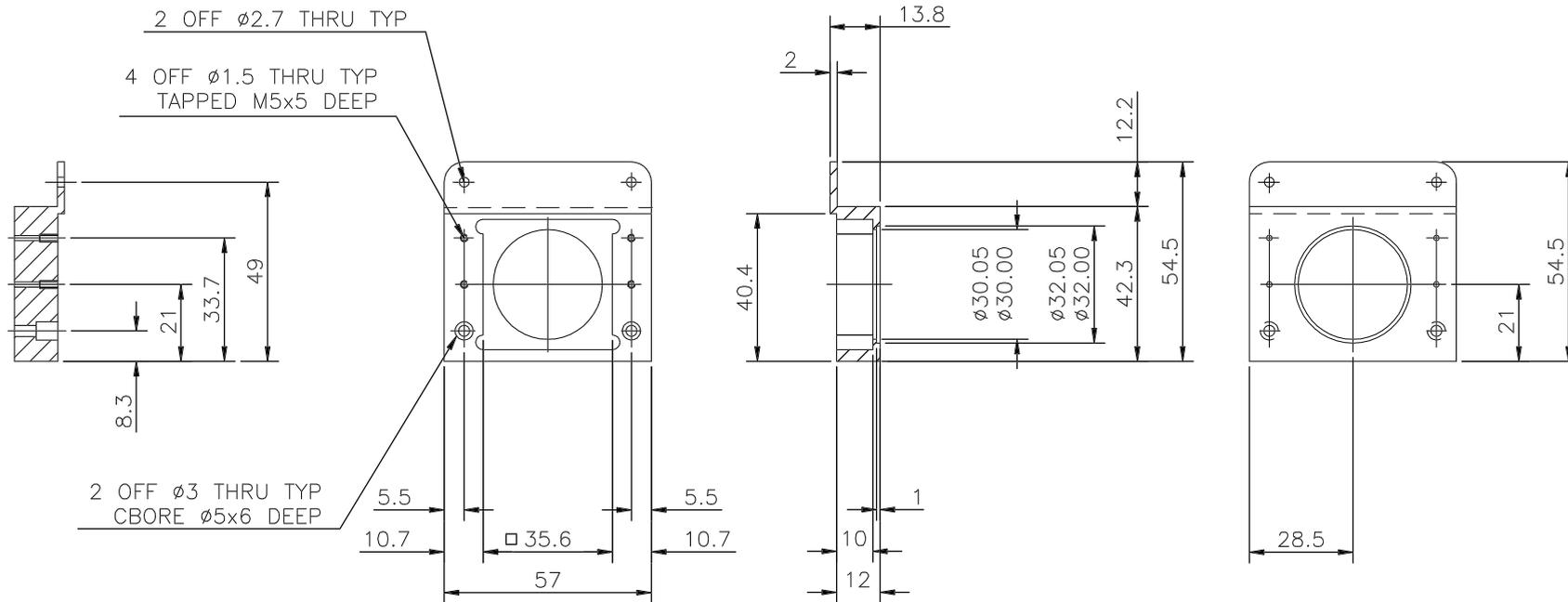
MATERIAL	SEE DRG.
FINISH	–
USED ON	B0010



ROYAL GREENWICH OBSERVATORY
 MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM

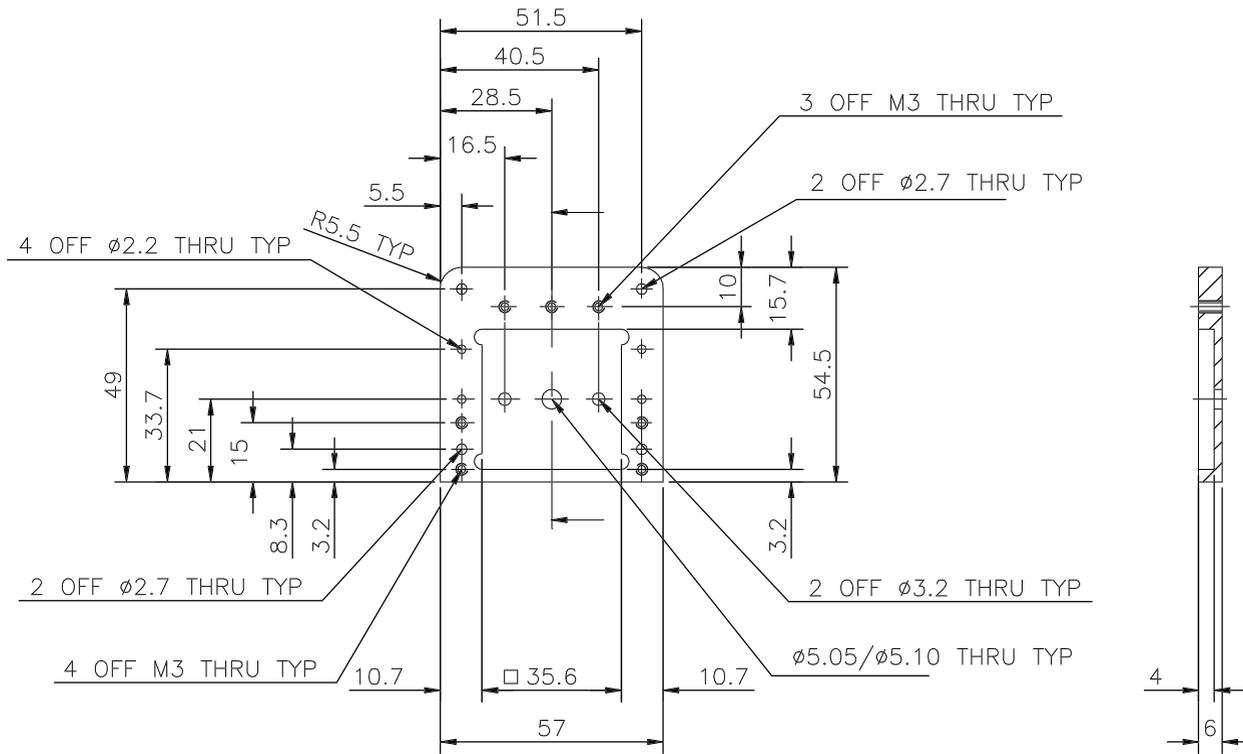


TITLE NEAR INFRA RED CAMERA THIN COOLING POSTS			
ORIGINAL SHEET A4	LOCATION BO	DWG. No. B0036	REV 2
ORIGINAL SCALE 1:1			SHEET 1 OF 1



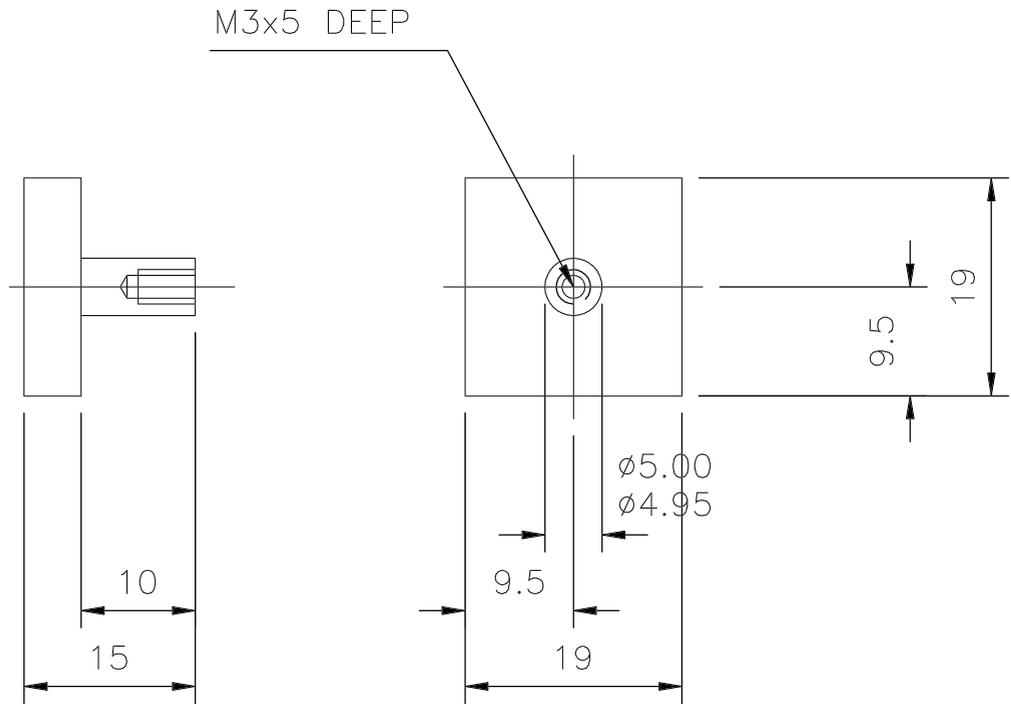
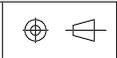
TOOL RADII 2MM TYP. IF OBTAINABLE

						UNLESS OTHERWISE STATED	MATERIAL	 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM		PPARC	
						DIMENSIONS ARE IN mm	BS1470 6082 TF				
						GENERAL TOLERANCE: ± 0.2	FINISH	TITLE			
						ANGULAR TOLERANCE: $\pm -$	-	NEAR INFRA-RED CAMERA ARRAY MOUNT			
						SURFACE FINISH: 3.2/ (MICRONS)	USED ON	ORIGINAL SHEET	LOCATION	DWG. No.	REV
2	FOR MANUFACTURE	IPB			ST	30/06/97	B0030	A2	BO	B0032	2
REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE		ORIGINAL SCALE	1:1		SHEET 1 OF 1
						REMOVE ALL SHARP EDGES					
						DO NOT SCALE THIS DRAWING					



							UNLESS OTHERWISE STATED	MATERIAL BS1470 6082 TF	 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM		PPARC
							DIMENSIONS ARE IN mm	FINISH -	TITLE NEAR INFRA-RED CAMERA ARRAY MOUNT BACK PLATE		
							GENERAL TOLERANCE: ± 0.2	USED ON B0030	ORIGINAL SHEET A2	LOCATION BO	DWG. No. BO033
							ANGULAR TOLERANCE: ± -				REV 2
							SURFACE FINISH: 3.2/ (MICRONS)				
							REMOVE ALL SHARP EDGES	ORIGINAL SCALE 1:1	SHEET 1 OF 1		
2	FOR MANUFACTURE	IPB			RC	04/07/97	DO NOT SCALE THIS DRAWING				
REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE					
ISSUE DESCRIPTION											

DWG. No. B0034



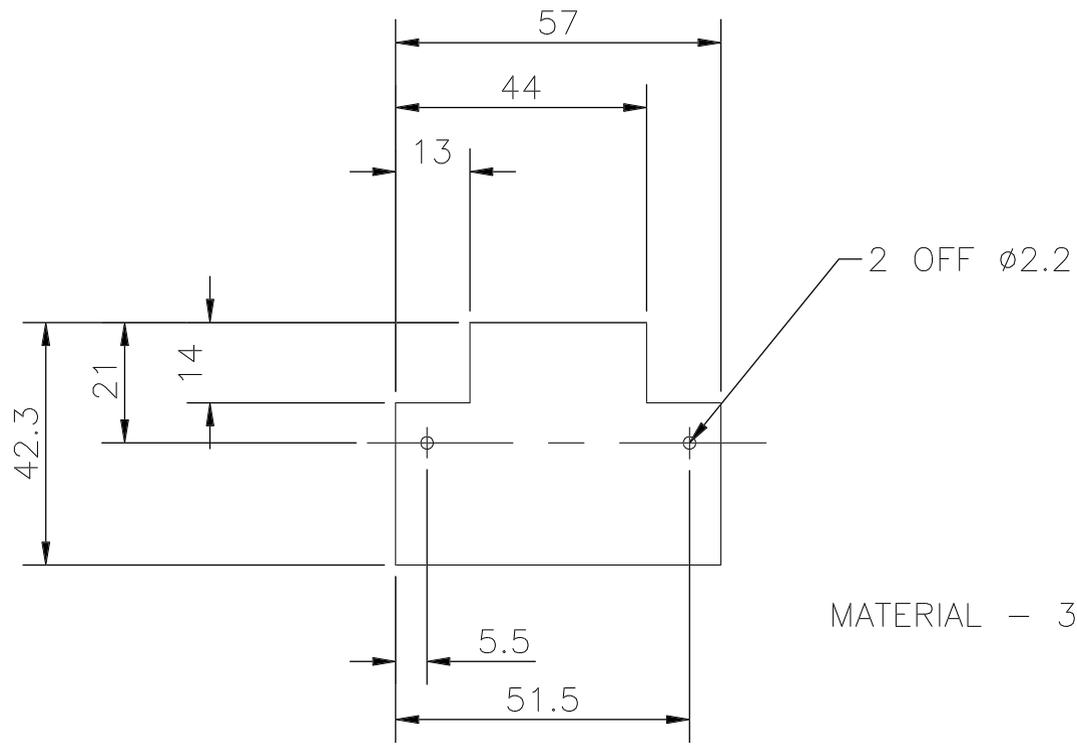
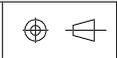
REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE
2	FOR MANUFACTURE	IPB			ST	30/06/97
ISSUE DESCRIPTION						

UNLESS OTHERWISE STATED
 DIMENSIONS ARE IN mm
 GENERAL TOLERANCE: ± 0.2
 ANGULAR TOLERANCE: ± -
 SURFACE FINISH: 3.2/
 (MICRONS)
 REMOVE ALL SHARP EDGES
 DO NOT SCALE THIS DRAWING

MATERIAL
 BS1470 6082 TF
 FINISH
 -
 USED ON
 B0030

 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM			
TITLE NEAR INFRA-RED CAMERA ARRAY SPRING PLATE			
ORIGINAL SHEET A3	LOCATION BO	DWG. No. B0034	REV 2
ORIGINAL SCALE 2:1	SHEET 1 OF 1		

DWG. No. B0038



REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE
1	FOR MANUFACTURE	IPB			ST	30/06/97
ISSUE DESCRIPTION						

UNLESS OTHERWISE STATED

DIMENSIONS ARE IN mm
 GENERAL TOLERANCE: ± 0.2
 ANGULAR TOLERANCE: ± -
 SURFACE FINISH: 3.2/
 (MICRONS) ✓
 REMOVE ALL SHARP EDGES

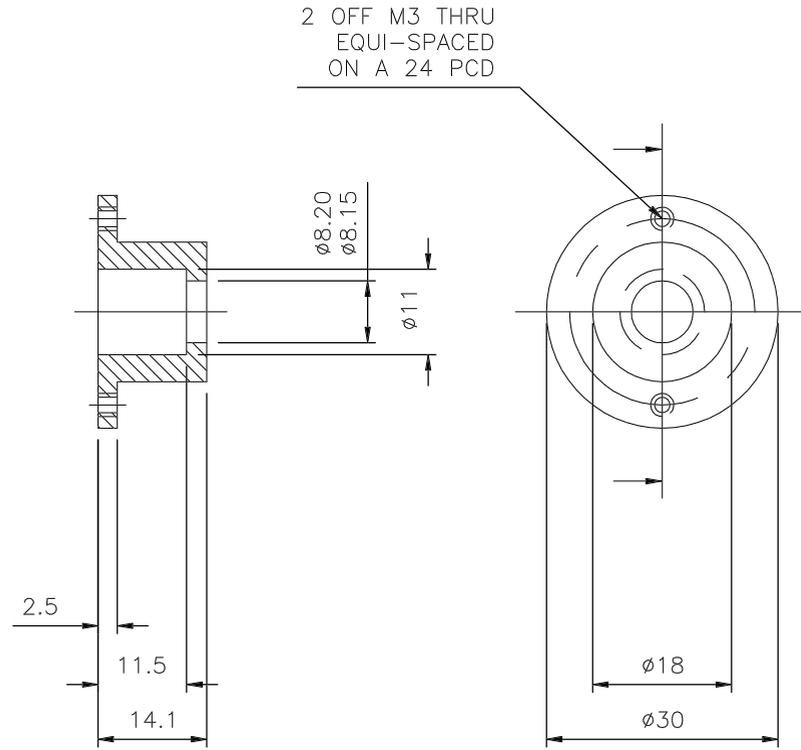
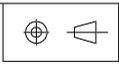
DO NOT SCALE THIS DRAWING

MATERIAL
BS1470 6082 3 THK

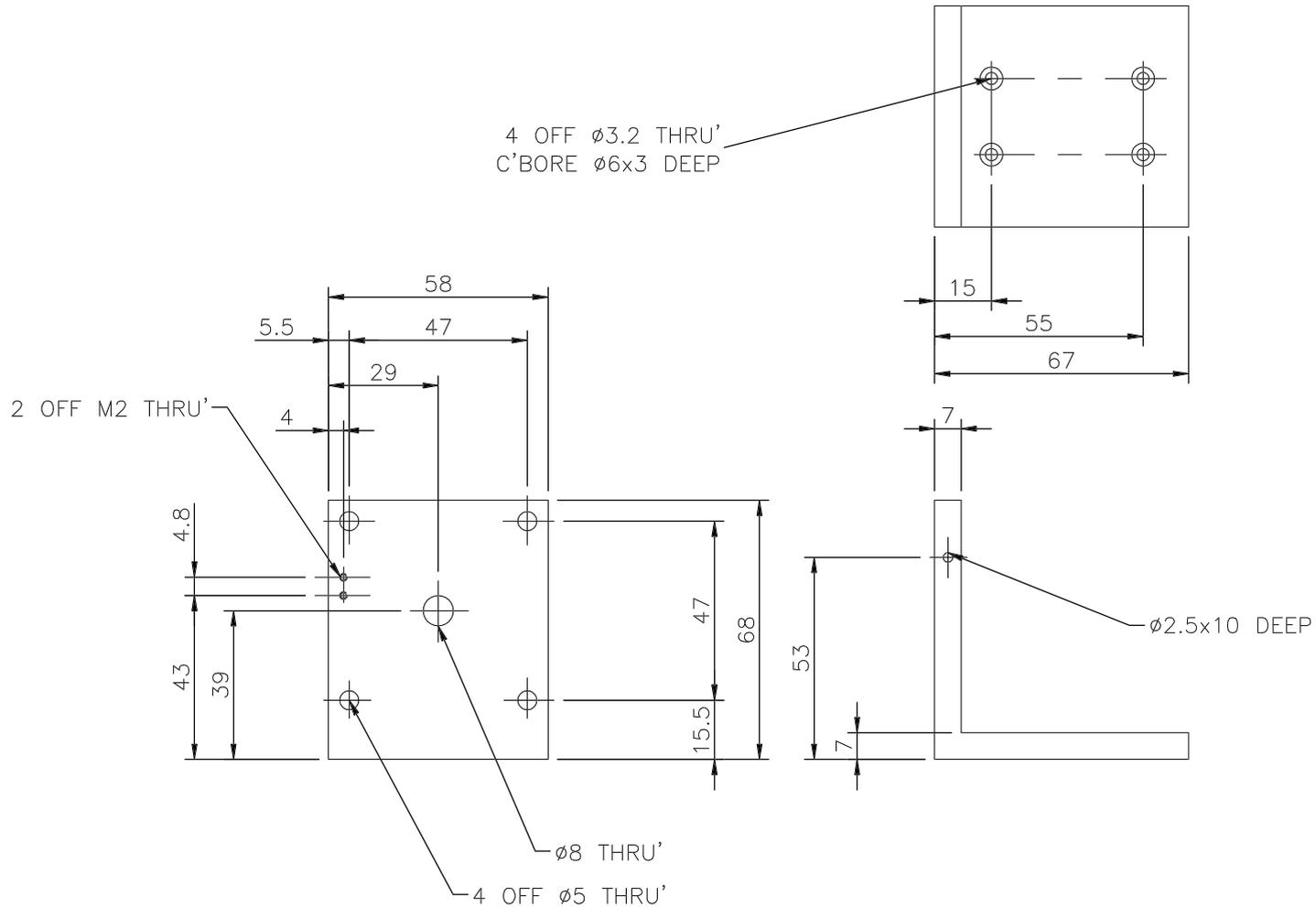
FINISH
-

USED ON
B0010

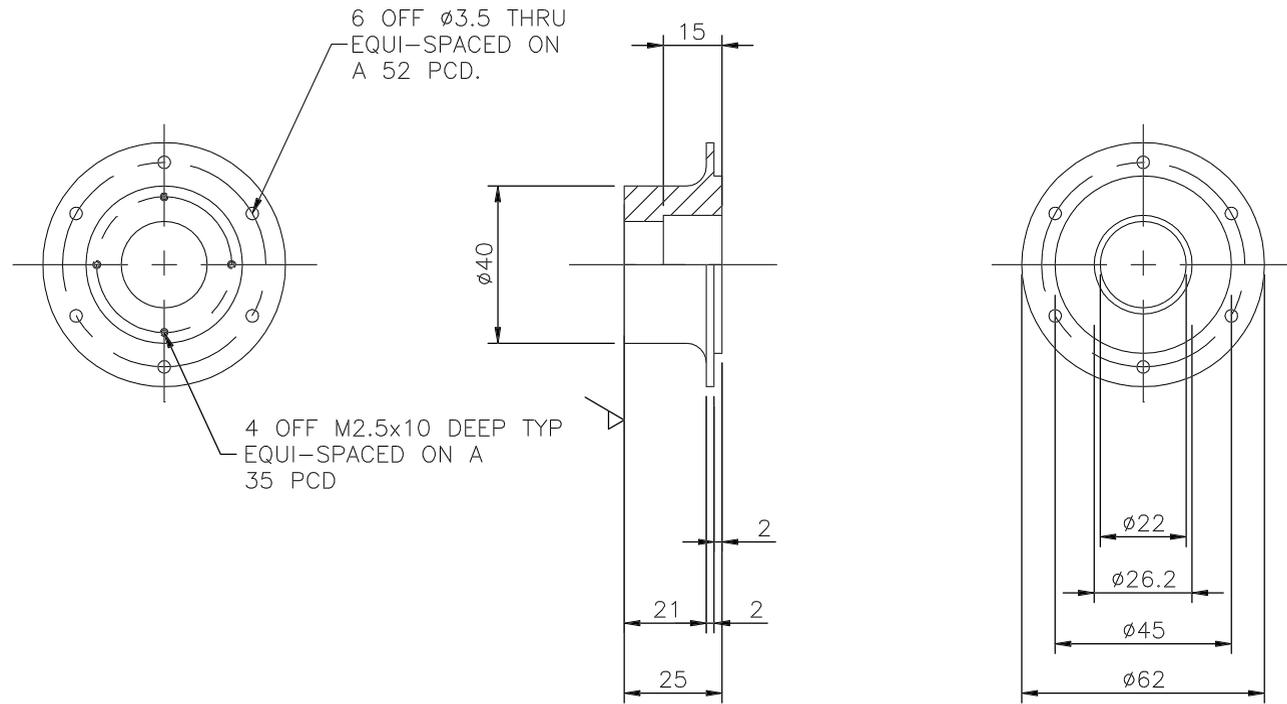
		ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM			
TITLE		NEAR INFRA RED CAMERA DETECTOR COVER			
ORIGINAL SHEET A3	LOCATION BO	DWG. No. B0038		REV 1	
ORIGINAL SCALE	1:1			SHEET 1 OF 1	



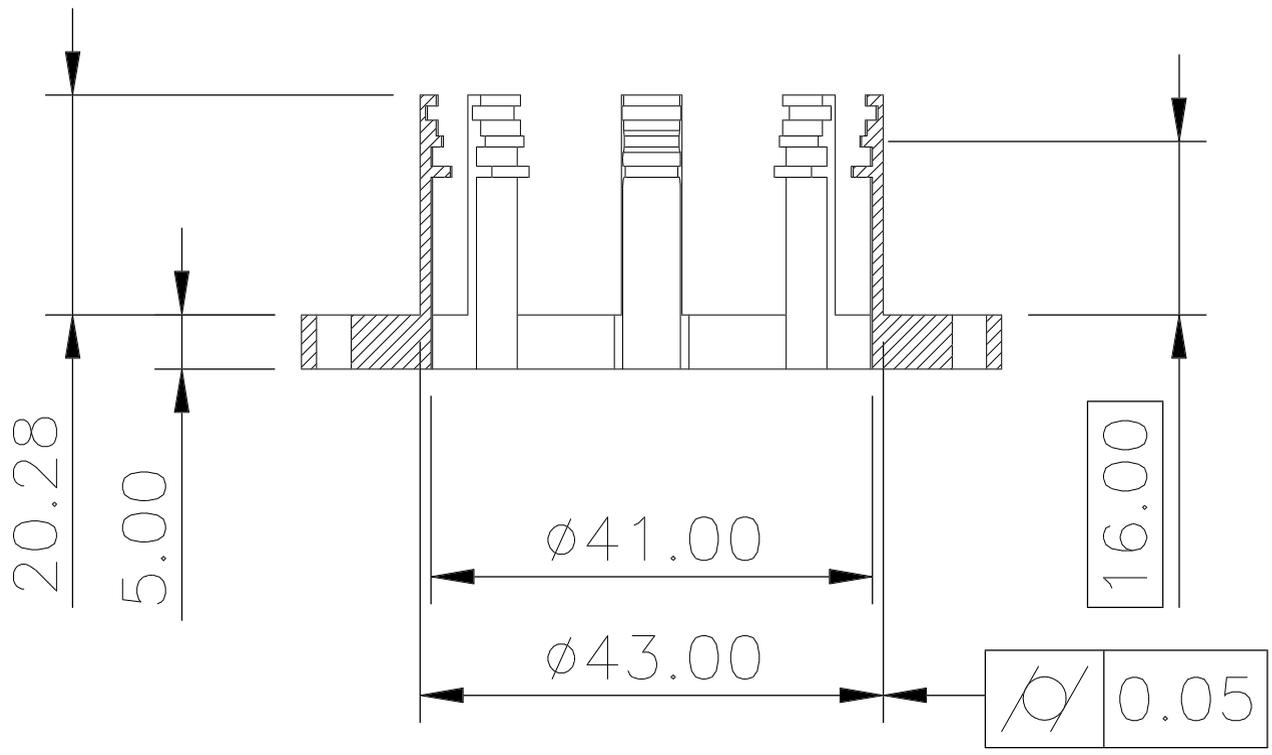
							UNLESS OTHERWISE STATED	MATERIAL	 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM				
							DIMENSIONS ARE IN mm	BS1470 6082					
							GENERAL TOLERANCE: ± 0.2	FINISH	TITLE				
							ANGULAR TOLERANCE: ± -	-	NEAR INFRA RED CAMERA				
							SURFACE FINISH: 3.2/ (MICRONS)		PHOTO DIODE HOLDER				
							REMOVE ALL SHARP EDGES	USED ON	ORIGINAL SHEET	LOCATION	DWG. No.	REV	
1	FOR MANUFACTURE	IPB			ST	30/06/97	B0010	A4	BO	B0039	1		
REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE							
ISSUE DESCRIPTION							DO NOT SCALE THIS DRAWING	ORIGINAL SCALE	1:1			SHEET 1 OF 1	



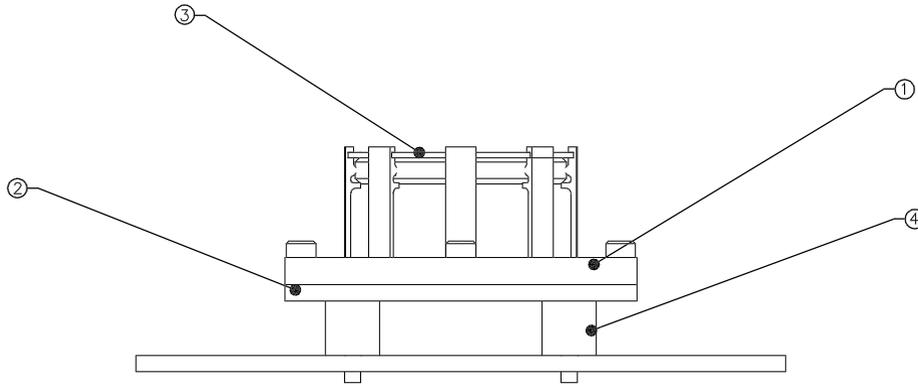
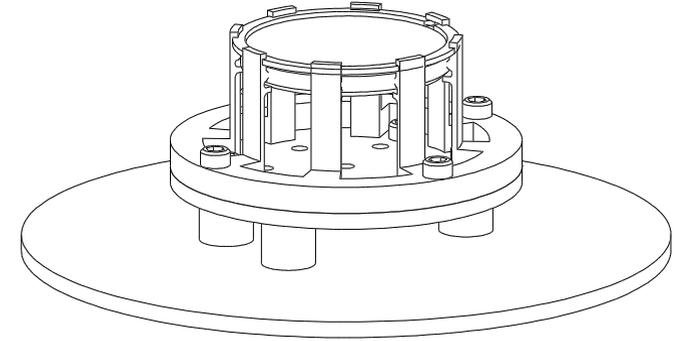
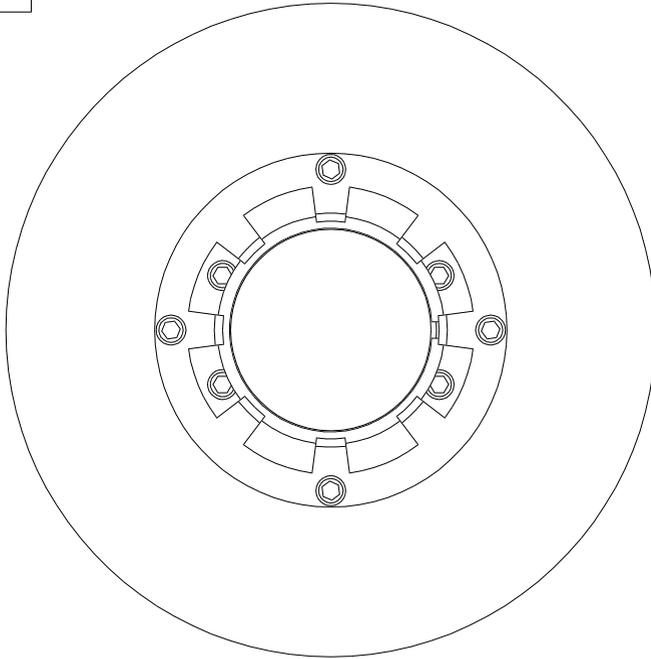
							UNLESS OTHERWISE STATED	MATERIAL	ROYAL GREENWICH OBSERVATORY			PPARC
							DIMENSIONS ARE IN mm	AL.ALLOY RSA	MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM			
							GENERAL TOLERANCE: ± 0.2	FINISH	TITLE			
							ANGULAR TOLERANCE: $\pm \text{---}$	--	WHT NEAR INFRA RED CAMERA			
							SURFACE FINISH: 1.6/ (MICRONS) \checkmark	USED ON	MOTOR COLD TEST BRACKET			
							REMOVE ALL SHARP EDGES	ORIGINAL SHEET	LOCATION	DWG. No.	REV	
FOR MANUFACTURE	IPB			RC	13/01/97		A2	BO	B0001			
REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE	ORIGINAL SCALE	1:1		SHEET	OF 1	
ISSUE DESCRIPTION							DO NOT SCALE THIS DRAWING					



							UNLESS OTHERWISE STATED	MATERIAL BS1470 5083 'O'	 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM			PPARC
							DIMENSIONS ARE IN mm	FINISH -	TITLE NEAR INFRA RED CAMERA ELECTRICAL PORT PLATE			
							GENERAL TOLERANCE: ± 0.2	USED ON B0010	ORIGINAL SHEET A2	LOCATION BO	DWG. No. B0040	REV 1
							ANGULAR TOLERANCE: $\pm -$		ORIGINAL SCALE 1:1	SHEET 1 OF 1		
							SURFACE FINISH: 3.2/ (MICRONS)					
							REMOVE ALL SHARP EDGES					
1	FOR MANUFACTURE	IPB			RC	09/07/97	DO NOT SCALE THIS DRAWING					
REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE						
ISSUE DESCRIPTION												



SECTION ON A-A



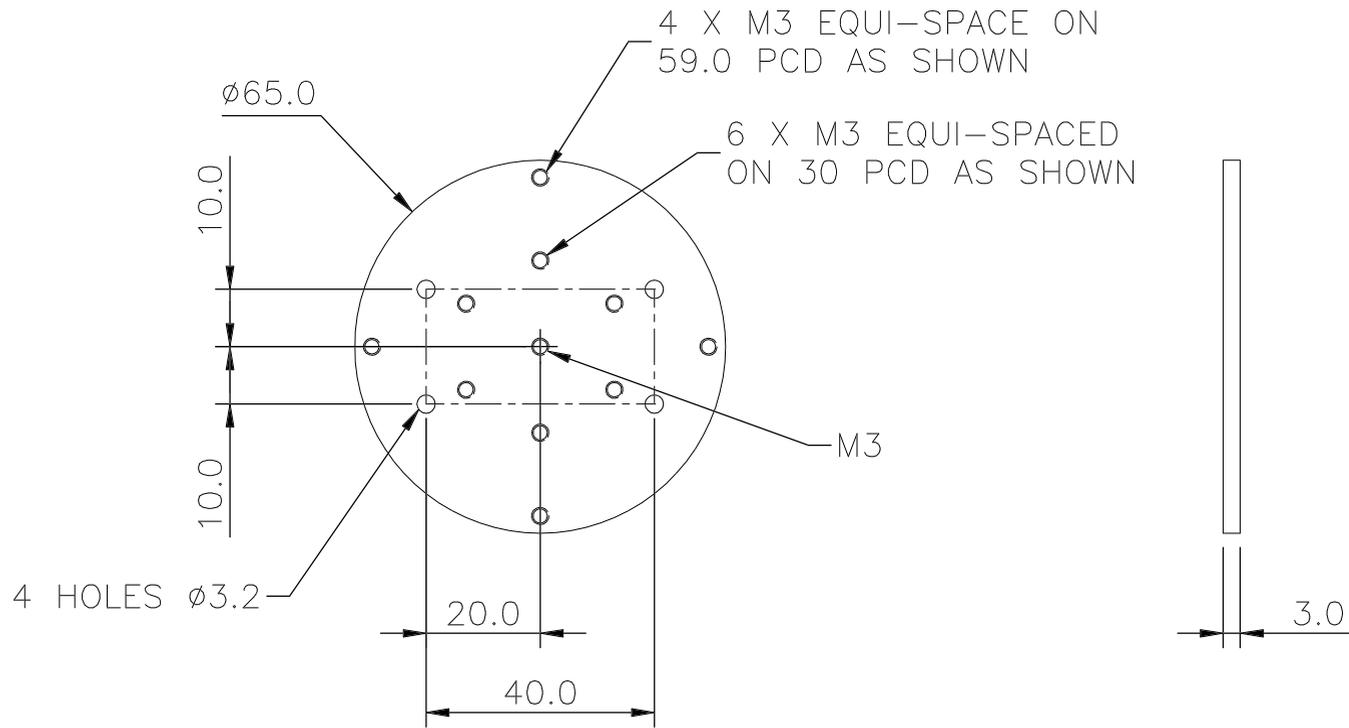
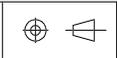
REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE
1	PRELIMINARY DESIGN	PDJ	SCC	SCC	ST	01/08/97
ISSUE DESCRIPTION						

UNLESS OTHERWISE STATED
 DIMENSIONS ARE IN mm
 GENERAL TOLERANCE: ±
 ANGULAR TOLERANCE: ±
 SURFACE FINISH: (MICRONS) ✓
 REMOVE ALL SHARP EDGES
 DO NOT SCALE THIS DRAWING

MATERIAL
 FINISH
 USED ON

 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM			
TITLE INGRID LENS MOUNT TEST HOLDER ASSEMBLY			
ORIGINAL SHEET A1	LOCATION BO	DWG. No. B0050	REV 1
ORIGINAL SCALE 2:1			SHEET 1 OF 1

DWG. No. B0052



REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE
1	PRELIMINARY DESIGN	PDJ	SCC	SCC	ST	01/08/97

UNLESS OTHERWISE STATED

DIMENSIONS ARE IN mm

GENERAL TOLERANCE: ± 0.1

ANGULAR TOLERANCE: ± 0.1

SURFACE FINISH: 3.2/
(MICRONS) ✓

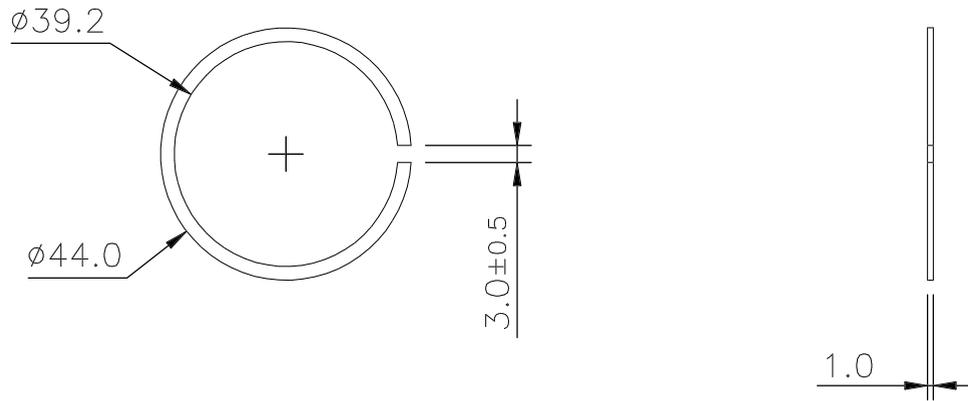
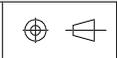
REMOVE ALL SHARP EDGES

DO NOT SCALE THIS DRAWING

MATERIAL	H30 ALUMINIUM
FINISH	CLEAN
USED ON	B0050

 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM			
TITLE		INGRID LENS TEST MOUNT INTERFACE PLATE	
ORIGINAL SHEET	LOCATION	DWG. No.	REV
A3	BO	B0052	1
ORIGINAL SCALE	1:1	SHEET 1 OF 1	

DWG. No. B0053



REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE
1	PRELIMINARY DESIGN	PDJ	SCC	SCC	ST	01/08/97
ISSUE DESCRIPTION						

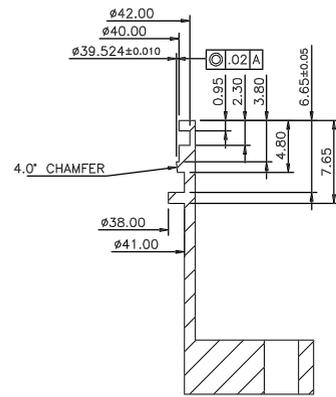
UNLESS OTHERWISE STATED

DIMENSIONS ARE IN mm
 GENERAL TOLERANCE: ± 0.1
 ANGULAR TOLERANCE: ±
 SURFACE FINISH: (MICRONS) ✓
 REMOVE ALL SHARP EDGES

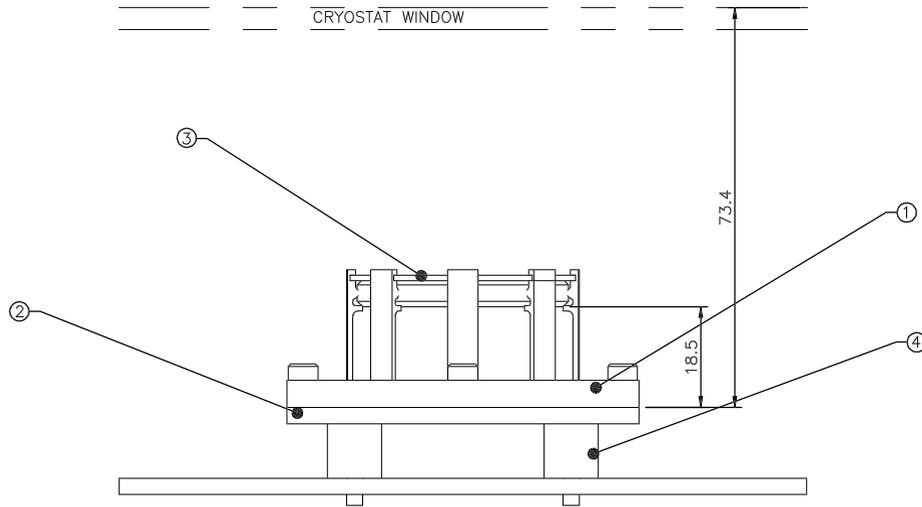
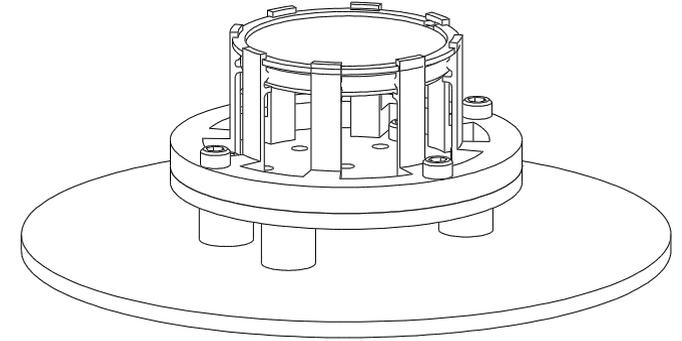
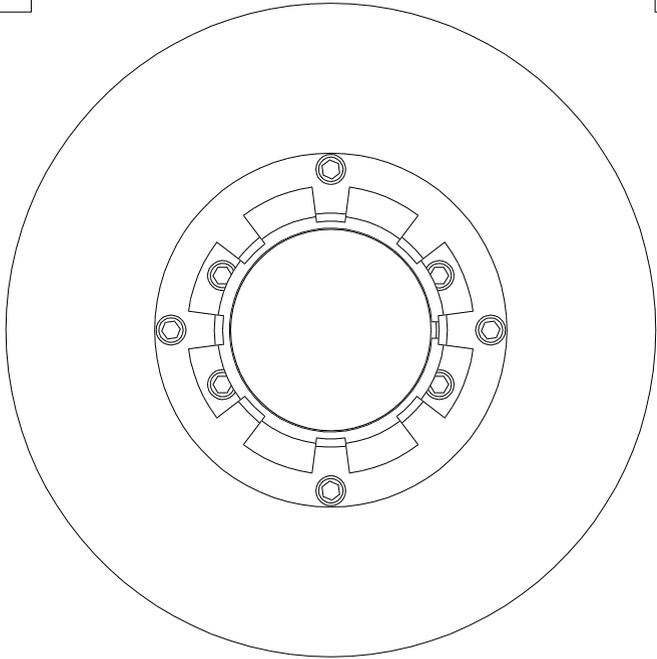
DO NOT SCALE THIS DRAWING

MATERIAL	PTFE
FINISH	
USED ON	B0050

 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM			
TITLE INGRID LENS TEST MOUNT RETAINING RING			
ORIGINAL SHEET	LOCATION	DWG. No.	REV
A3	BO	B0053	1
ORIGINAL SCALE	1:1	SHEET 1 OF 1	



SECTION ON A-A



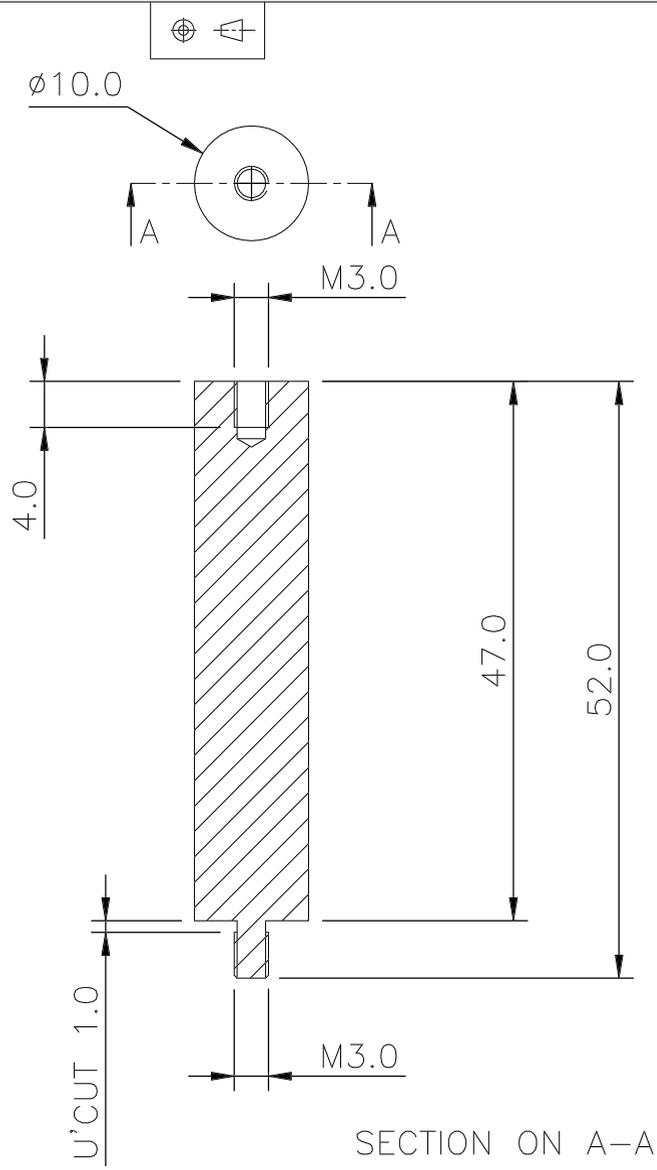
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1	PRELIMINARY DESIGN	PDJ	SCC	SCC	IS	05/08/97
2	CROSTAT WINDOW SHOWN	PDJ	SCC	SCC	ST	21/08/97

UNLESS OTHERWISE STATED
 DIMENSIONS ARE IN mm
 GENERAL TOLERANCE: ±
 ANGULAR TOLERANCE: ±
 SURFACE FINISH: (MICRONS) ✓
 REMOVE ALL SHARP EDGES
 DO NOT SCALE THIS DRAWING

MATERIAL	
FINISH	
USED ON	

 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM			
TITLE INGRID LENS MOUNT TEST HOLDER ASSEMBLY			
ORIGINAL SHEET A1	LOCATION B0	DWG. No. B0050	REV 2
ORIGINAL SCALE 2:1			SHEET 1 OF 1

DWG. No. B0055



SECTION ON A-A

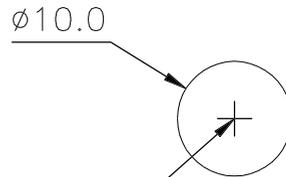
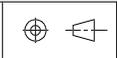
REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE
1	PRELIMINARY DESIGN	PDJ			ST	27/08/97
ISSUE DESCRIPTION						

UNLESS OTHERWISE STATED
 DIMENSIONS ARE IN mm
 GENERAL TOLERANCE: ± 0.2
 ANGULAR TOLERANCE: ±
 SURFACE FINISH: (MICRONS) ✓
 REMOVE ALL SHARP EDGES
 DO NOT SCALE THIS DRAWING

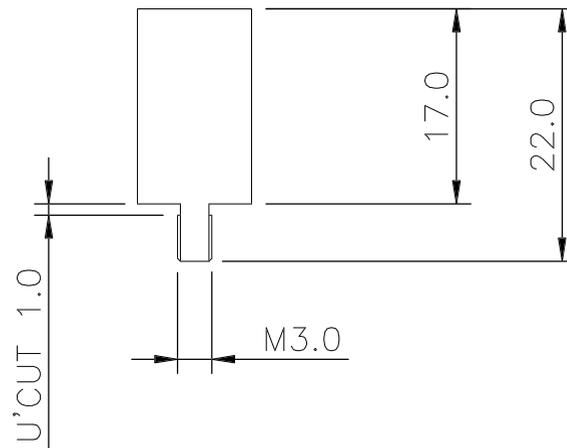
MATERIAL	DELTRIN
FINISH	
USED ON	B0050

 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM			
TITLE INGRID LENS TEST MOUNT INSULATING POST – LONG VERSION			
ORIGINAL SHEET	LOCATION	DWG. No.	REV
A3	BO	B0055	1
ORIGINAL SCALE	2:1	SHEET 1 OF 1	

DWG. No. B0056



SCRIBE CENTRE WITH A CROSS
LINE THICKNESS 0.5mm



REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE
1	PRELIMINARY DESIGN	PDJ			ST	28/08/97
ISSUE DESCRIPTION						

UNLESS OTHERWISE STATED

DIMENSIONS ARE IN mm

GENERAL TOLERANCE: ± 0.2

ANGULAR TOLERANCE: ±

SURFACE FINISH: ✓
(MICRONS)

REMOVE ALL SHARP EDGES

DO NOT SCALE THIS DRAWING

MATERIAL
H30 AL. ALLOY

FINISH

USED ON
B0050



ROYAL GREENWICH OBSERVATORY

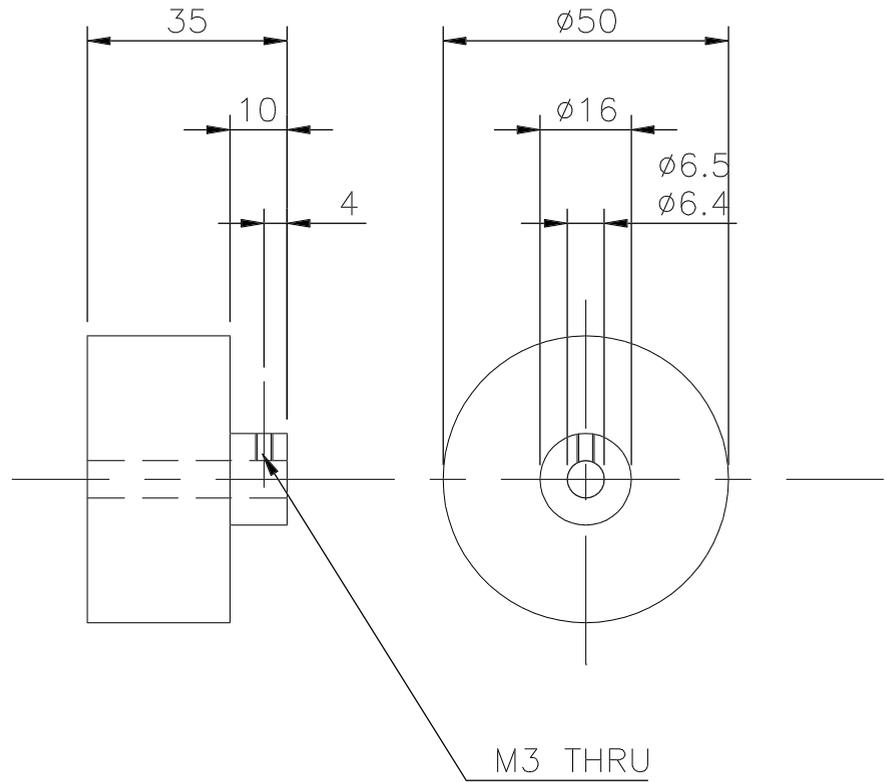
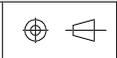
MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM



TITLE
INGRID LENS MOUNT TARGET

ORIGINAL SHEET A3	LOCATION BO	DWG. No. B0056	REV 1
ORIGINAL SCALE	2:1	SHEET 1 OF 1	

DWG. No. B0008



REV	DESCRIPTION	DRAWN BY	CHECKED	APPROVED	STATUS	DATE
1	FOR MANUFACTURE	SCC			ST	02/09/97
ISSUE DESCRIPTION						

UNLESS OTHERWISE STATED
 DIMENSIONS ARE IN mm
 GENERAL TOLERANCE: ± 0.2
 ANGULAR TOLERANCE: ± -
 SURFACE FINISH: 3.2/
 (MICRONS) ✓
 REMOVE ALL SHARP EDGES
 DO NOT SCALE THIS DRAWING

MATERIAL H.30
 FINISH -
 USED ON

 ROYAL GREENWICH OBSERVATORY MADINGLEY ROAD, CAMBRIDGE CB3 0EZ, UNITED KINGDOM			
TITLE NEAR INFRA RED CAMERA STEPPER MOTOR FLYWHEEL - TEST			
ORIGINAL SHEET A3	LOCATION BO	DWG. No. B0008	REV 1
ORIGINAL SCALE 1:1	SHEET 1 OF 1		