



**ISAAC NEWTON
GROUP OF
TELESCOPES**

Apartado de Correos 321, 38780 S/C de La Palma, Canary Islands, SPAIN

TITLE:	FORE OPTICS GENERAL ASSEMBLY INGRID SCIENCE CAMERA (DOUBLET)
DWG No:	BO260

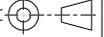
DRAWN:	PDJ	DATE	23/08/99	REVISION	2
CHECKED:					
APPROVED:					

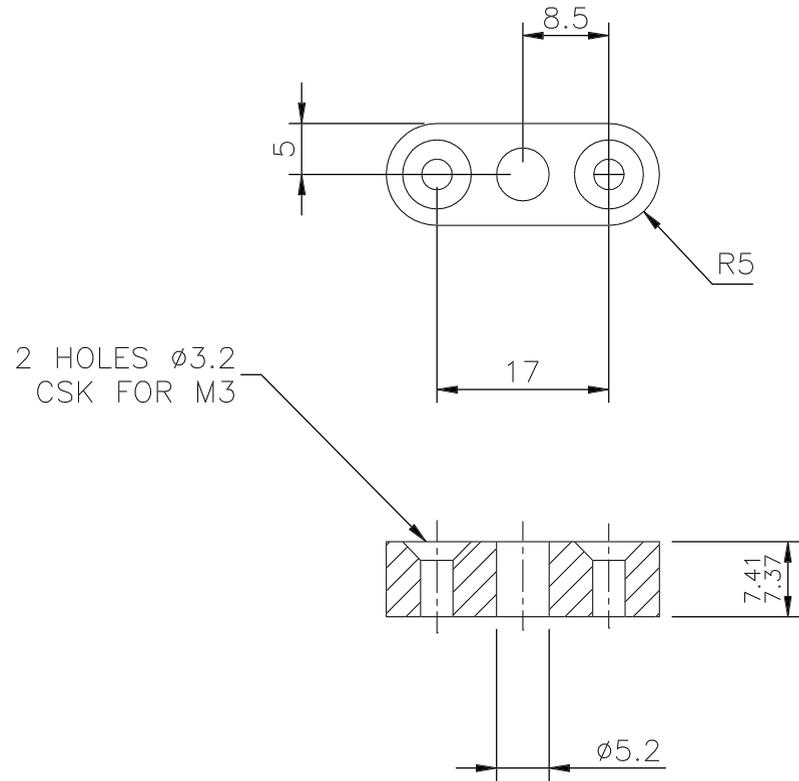
GA ITEM No.	DRAWING NUMBER	REV	DRAWING TITLE OR COMPONENT NAME	No. Per ASSEMBLY	COMPONENT NUMBER	REMARKS
	BO260	1	FORE OPTICS GENERAL ASSEMBLY	1		
1	BO261	1	WINDOW RETAINER	1		
2	BO262	1	WINDOW HOLDER	1		SST
3	BO263	2	DOUBLET HOLDER	1		
4	BO264	1	DOUBLET RETAINING RING	1		DELRIN
5	BO265	1	DOUBLET RETAINING RING	1		DELRIN
6	BO266	1	MAIN BARREL	1		
7	BO267	1	FORE OPTIC BAFFLE (THIRD)	1		
8	BO268	1	FORE OPTIC BAFFLE (SECOND)	1		
9	BO269	1	FORE OPTIC BAFFLE (FIRST)	1		
10	BO270	1	FORE OPTIC SPACER (2-3)	1		
11	BO271	1	FORE OPTIC SPACER (1-2)	1		
12	BO272	3	FIELD LENS HOLDER	1		
13	BO273	1	FIELD LENS RETAINER	1		DELRIN
14	BO274	1	FIELD LENS RETAINER	1		DELRIN
15	BO275	3	SHIM	3		SST
16	BO276	2	DOUBLET SPACER	1		DELRIN
17	BO277	1	SPACER	3		DELRIN
18			O' RING 55 X 2.0	1		NITRILE
19			O' RING 64 X 3.0	1		NITRILE
20			O' RING 105 X 3.0	1		NITRILE

Drawing No:

B0275

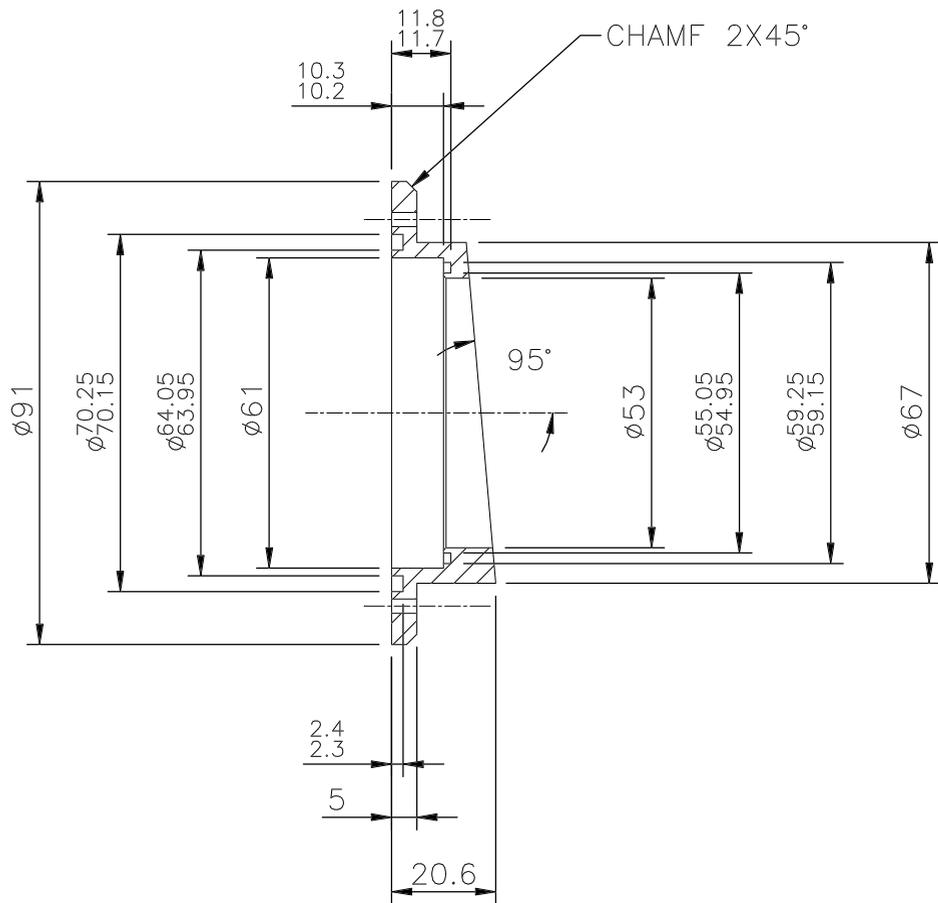
DO NOT SCALE IF IN DOUBT ASK

THIRD ANGLE 

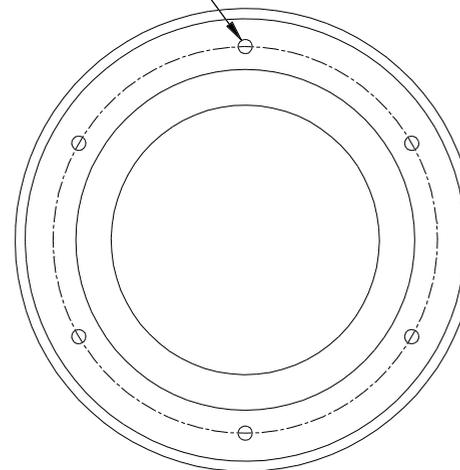


3	PDJ	23/08/99		
2	PDJ	9/3/99		
1	PDJ	21/12/98		
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPRVD

<p>UNLESS OTHERWISE STATED</p> <p>ALL DIMENSIONS IN mm</p> <p>GENERAL TOL: ± 0.1</p> <p>ANGULAR TOL: ± 0.1</p> <p>SURFACE FINISH (MICRONS) ✓</p> <p>REMOVE ALL SHARP EDGES</p> <p><small>This document belongs to the ISAAC NEWTON GROUP of TELESCOPES and may not be copied, reproduced or displayed in whole or in part without the express written consent of the ISAAC NEWTON GROUP of TELESCOPES</small></p>	<p>TITLE: SHIM INGRID SCIENCE CAMERA</p>				<p>ISAAC NEWTON GROUP Apartado de Correos, 321 38780 S/C de La Palma Canary Islands SPAIN Tel: +34 922 425 400</p>	
	<p>MATERIAL: STAINLESS STEEL 304</p>	<p>ORIGINAL SCALE: 1:1</p>	<p>MAIN SYSTEM: INGRID</p>	<p>DWG TYPE: PART</p>		
	<p>FINISH: CLEAN</p>	<p>SHEET SIZE: A3</p>	<p>SUB-SYSTEM: FORE OPTICS</p>	<p>LOCATION: BO</p>		
			<p>ITEM: PART</p>	<p>USED ON: B0260</p>		
		<p>ENG DISCIPLINE: MECHANICAL</p>		<p>DRAWING NUMBER: B0275</p>	<p>SHEET 1 of 1</p>	



6 HOLES Ø2.8
ON 76 PCD

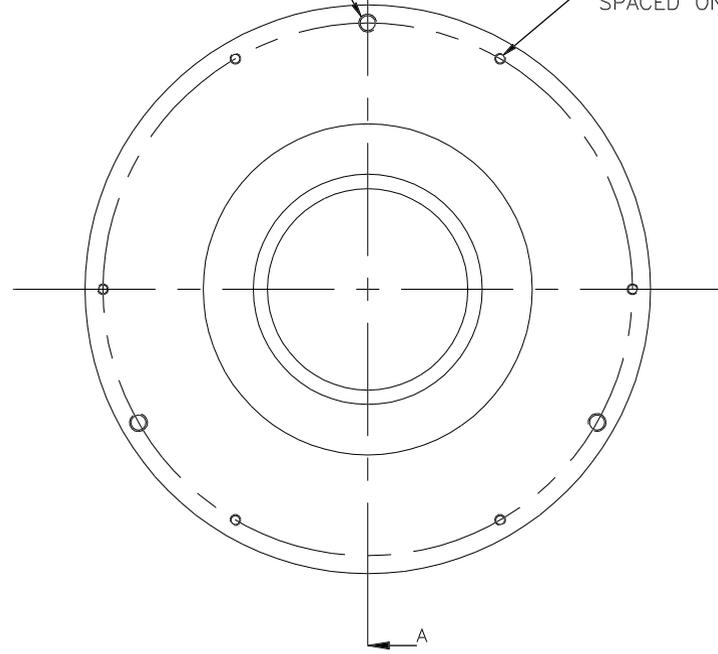


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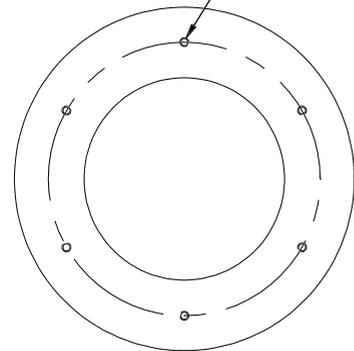
UNLESS OTHERWISE STATED ALL DIMENSIONS IN mm GENERAL TOL: ± 0.1 ANGULAR TOL: ± SURFACE FINISH 1.6 ✓ (MICRONS) REMOVE ALL SHARP EDGES		TITLE: WINDOW RETAINER FORE OPTICS ASSEMBLY		ISAAC NEWTON GROUP Apartado de Correos, 321 38780 S/C de La Palma Canary Islands SPAIN Tel: +34 922 425 400	
MATERIAL: ALUMINIUM ALLOY 6062 TF	ORIGINAL SCALE 1:1	MAIN SYSTEM INGRID	DWG TYPE Port	DRAWING NUMBER BO261 SHEET 1 of 1	
FINISH: CLEAN	SHEET SIZE A3	SUB-SYSTEM FOREOPTICS	LOCATION BO		
<small>This document belongs to the ISAAC NEWTON GROUP of TELESCOPES and may not be copied, reproduced or displayed in whole or in part without the express written consent of the ISAAC NEWTON GROUP of TELESCOPES.</small>	ITEM WINDOW HOLDER	USED ON BO260	ISS DRAWN By DATE DRAWN 21/12/98 APPROVED By DATE APPRVD		

3 HOLES M5 EQUI-SPACED ON 148PCD

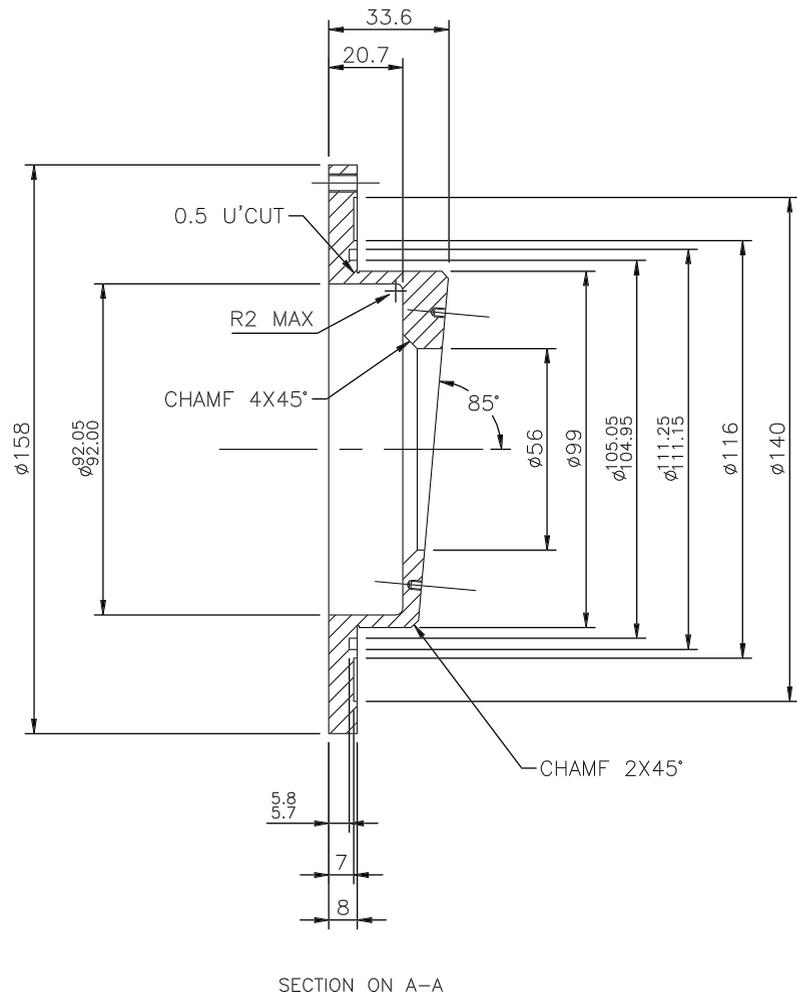
6 HOLES M3 EQUI-SPACED ON 148PCD



6 HOLES M2.5 3 DEEP ON 76 PCD DO NOT BREAK THROU



DETAILS OF ANGLED HOLES



SECTION ON A-A

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REMOVE ALL SHARP EDGES

TITLE: WINDOW HOLDER FORE OPTICS ASSEMBLY		ORIGINAL SCALE: 1:1	MATERIAL: STAINLESS STEEL BS970 304	FINISH: DECREASE	SHEET SIZE: A2	DATE: 21/12/98	ISS: 1	DRAWN By: PBJ	APPROVED By:	DATE APPROV:
INGRID	FORE OPTICS	BO	BO260	MECHANICAL						

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38760 S/C de La Palma
Canary Islands
SPAIN
Tel: +34 922 485 400

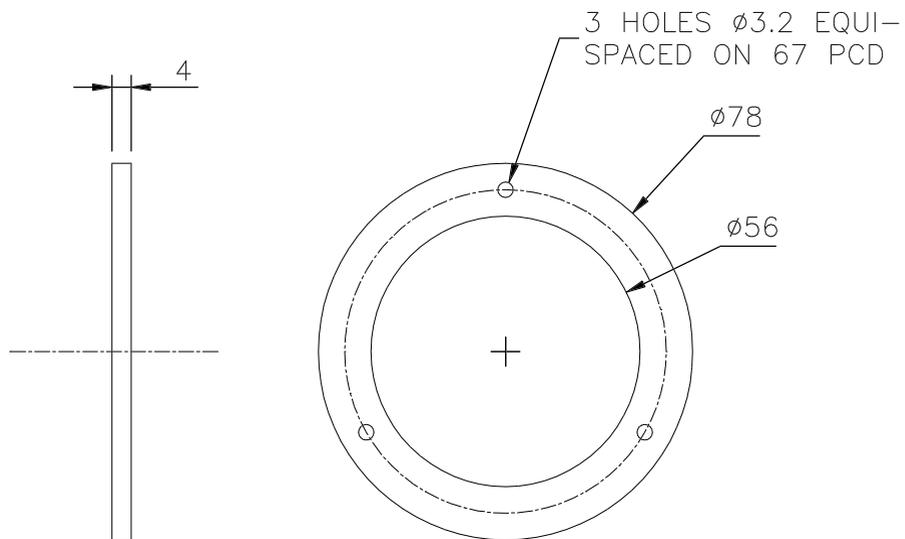
DRAWING NUMBER: B0262
SHEET 1 of 1

Drawing No:

B0264

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THIRD ANGLE



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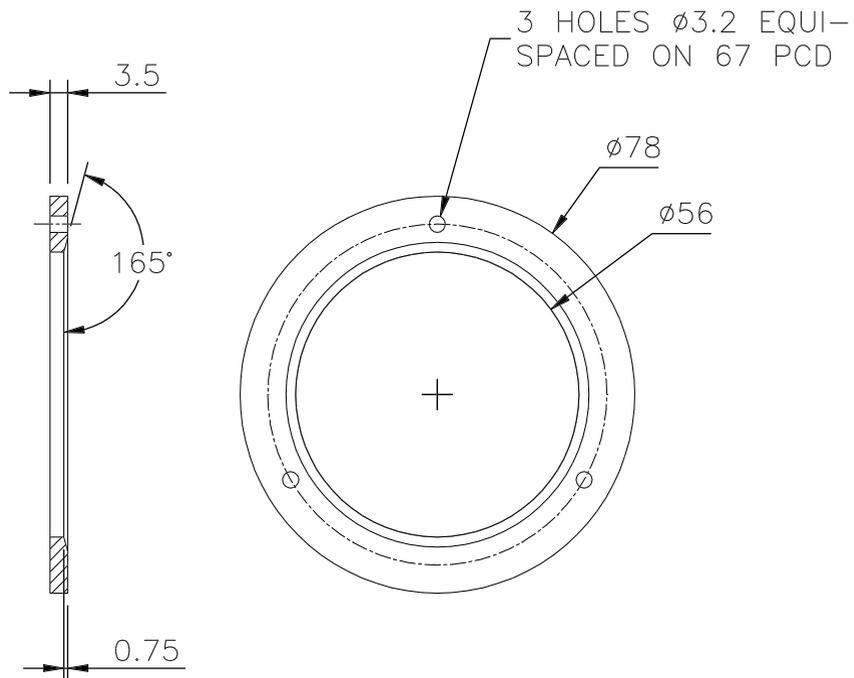
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	MATERIAL: DELRIN	ORIGINAL SCALE: 1:1	MAIN SYSTEM: INGRID				DWG TYPE: PART
	FINISH: CLEAN	SHEET SIZE: A3	SUB-SYSTEM: FORE OPTIC				LOCATION: BO
			ITEM: PART				USED ON: B0260
		ENG DISCIPLINE: MECHANICAL		DRAWING NUMBER: B0264	SHEET 1 of 1		

ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPRVD
1	PDJ	21/12/98		

Drawing No: B0265

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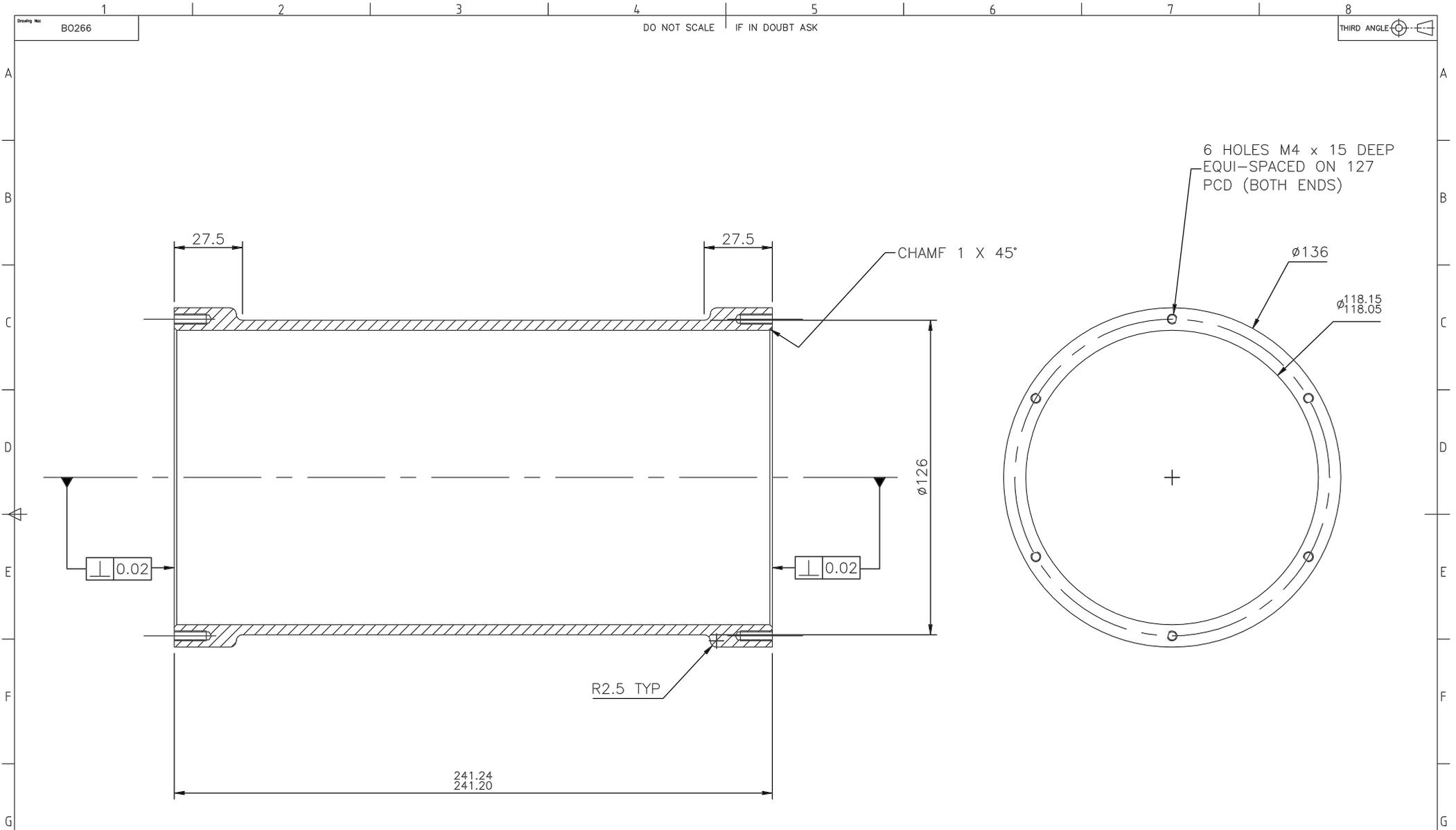
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MATERIAL: DELTRIN	ORIGINAL SCALE 1:1	MAIN SYSTEM INGRID	DWG TYPE PART	DRAWING NUMBER B0265 SHEET 1 of 1	
FINISH: CLEAN	SHEET SIZE A3	SUB-SYSTEM FORE OPTIC	LOCATION BO		
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		ENG DISCIPLINE MECHANICAL		ISS	DATE APPROVD

1	PDJ	21/12/98		
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 SURFACE FINISH (MICRONS)
 REMOVE ALL SHARP EDGES

TITLE: MAIN BARREL INGRID SCIENCE CAMERA (DOUBLET)
 MATERIAL: ALUMINIUM ALLOY 6082 TF
 FINISH: CLEAN
 ORIGINAL SCALE: 1:1
 SHEET SIZE: A2
 MAN SYSTEM: INGRID
 FORE OPTICS
 ASSEMBLY
 DISCIPLINE: MECHANICAL
 DWG TYPE: GA
 LOCATION: BO
 USED ON: B0260

ISS: 1
 DRAWN By: PDJ
 DATE DRAWN: 21/12/98
 APPROVED By: [Signature]
 DATE APPROV: [Signature]
 ISMAC NEWTON GROUP
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 38700 S/C de La Palma
 Canary Islands
 SPAIN
 Tel: +34 922 485 400
 DRAWING NUMBER: B0266
 SHEET 1 of 1

Drawing No:

B0267

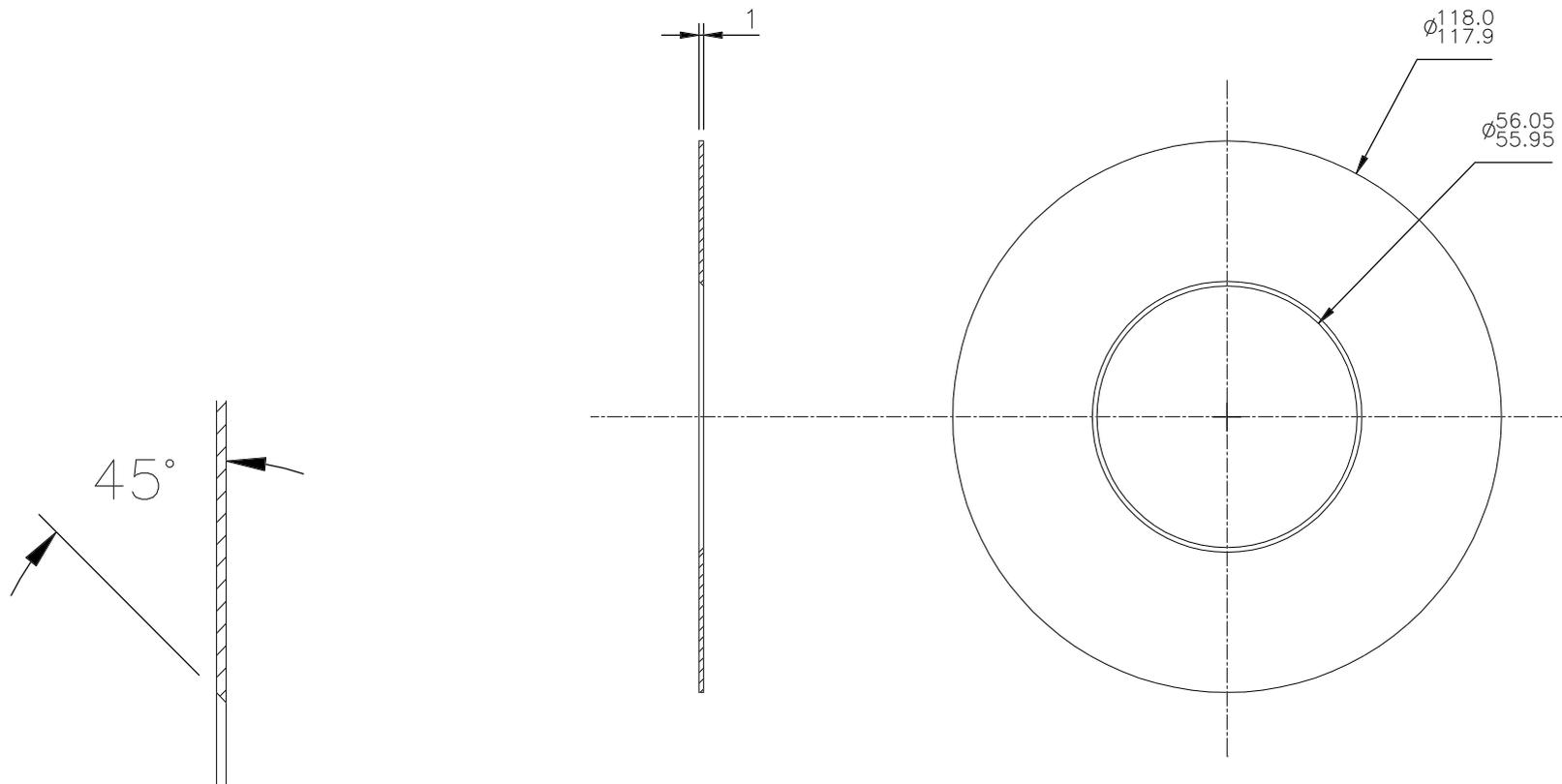
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THIRD ANGLE



A
B
C
D
E
F

A
B
C
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E
F



DETAIL OF KNIFE EDGE
SCALE 2:1

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	MATERIAL: ALUMINIUM ALLOY 6082 TF	ORIGINAL SCALE: 1:1	MAIN SYSTEM: INGRID	DWG TYPE: PART	
	FINISH: CLEAN	SHEET SIZE: A3	SUB-SYSTEM: FORE OPTICS	LOCATION: BO	
			ITEM: BAFFLE	USED ON: B0260	
		ENG DISCIPLINE: MECHANICAL			

DRAWING NUMBER: B0267
 SHEET 1 of 1

Drawing No:

B0268

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THIRD ANGLE



A

B

C

D

E

F

A

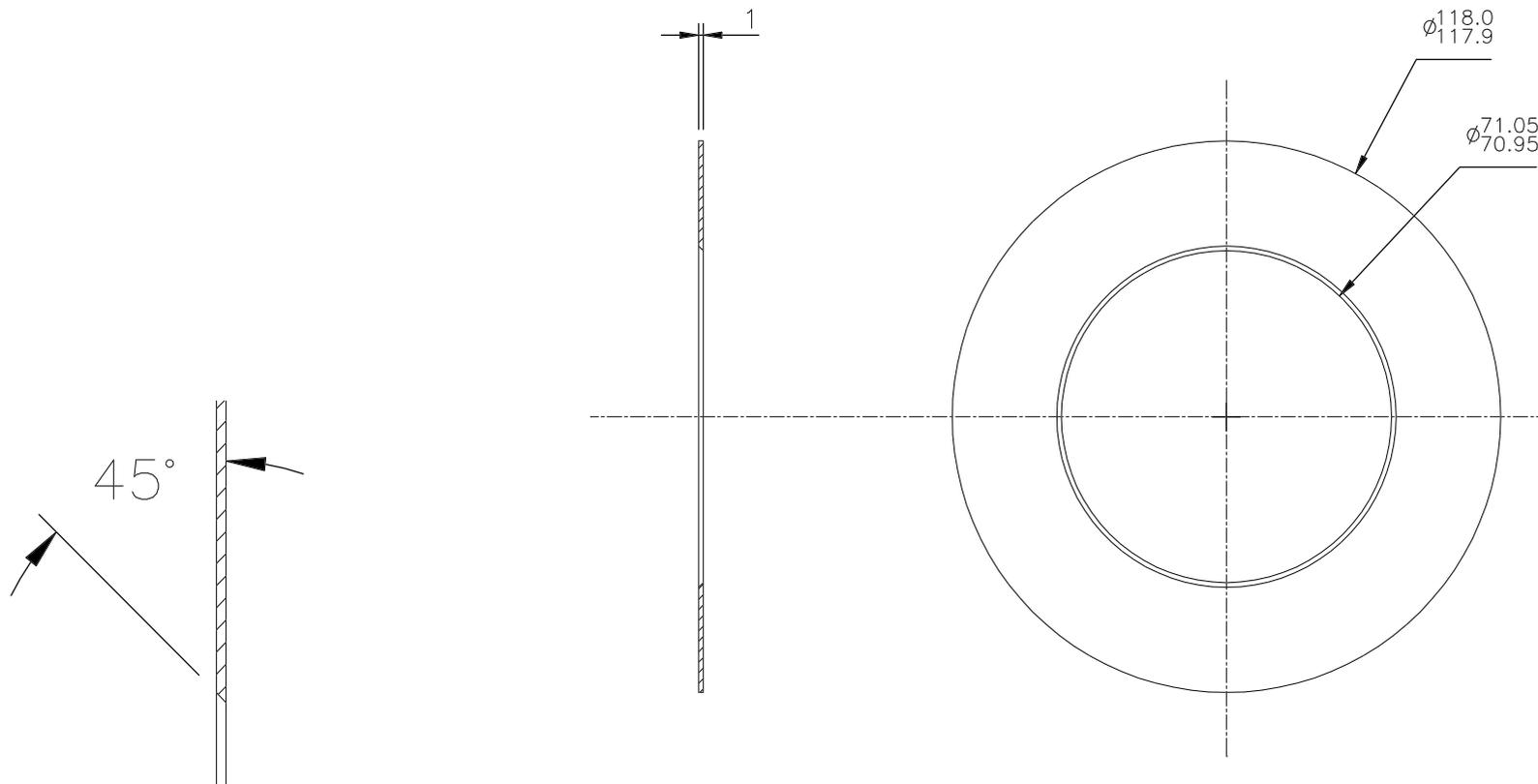
B

C

D

E

F



DETAIL OF KNIFE EDGE
SCALE 2:1

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MATERIAL: ALUMINIUM ALLOY 6082 TF		ORIGINAL SCALE: 1:1	MAIN SYSTEM: INGRID	DWG TYPE: PART	DRAWING NUMBER: B0268 SHEET 1 of 1		
FINISH: CLEAN		SHEET SIZE: A3	SUB-SYSTEM: FORE OPTICS	LOCATION: BO			
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Drawing No:

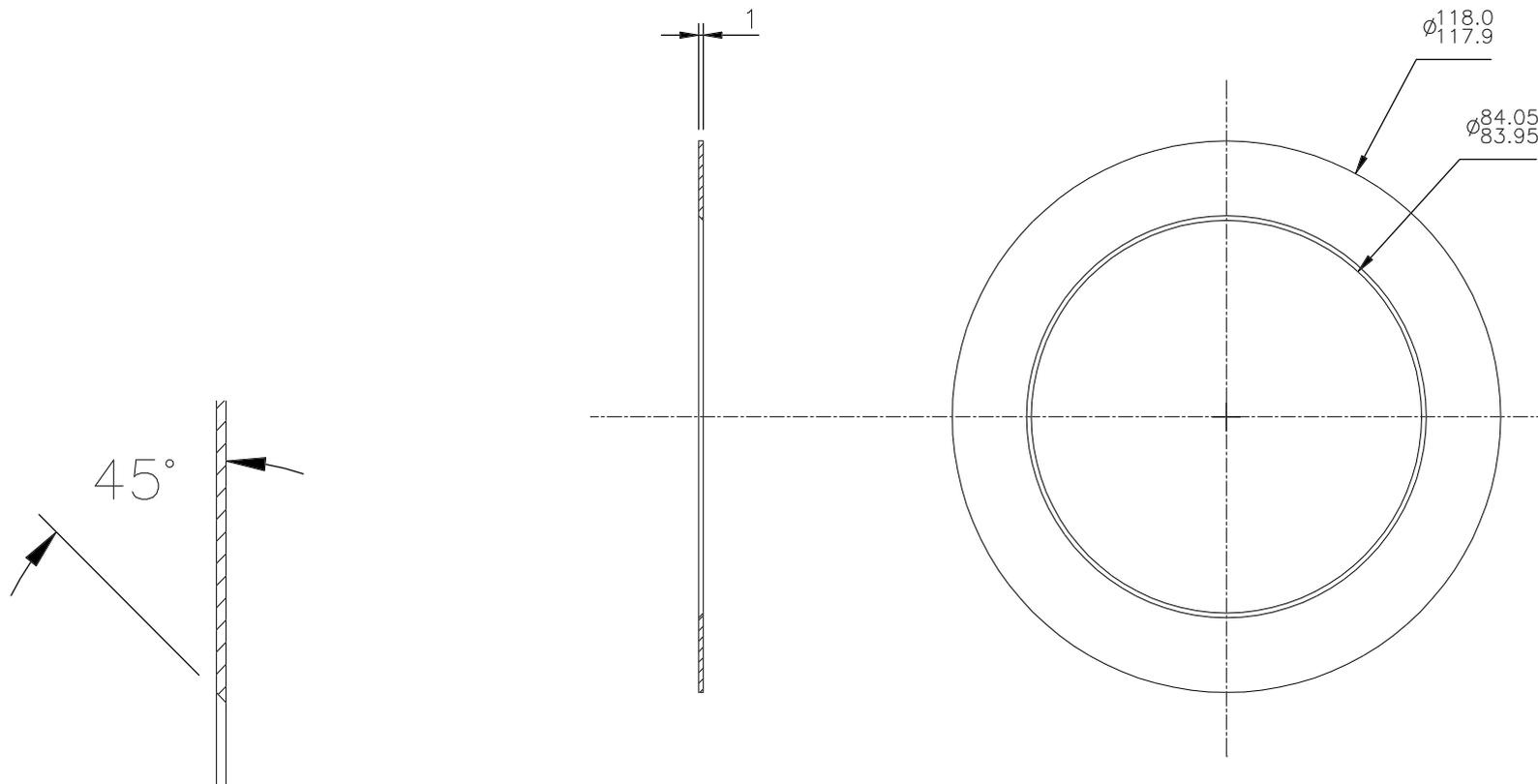
BO269

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THIRD ANGLE



A
B
C
D
E
F



DETAIL OF KNIFE EDGE
SCALE 2:1

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MATERIAL: ALUMINIUM ALLOY 6082 TF		ORIGINAL SCALE: 1:1	MAIN SYSTEM: INGRID	DWG TYPE: PART	
FINISH: CLEAN		SHEET SIZE: A3	SUB-SYSTEM: FORE OPTICS	LOCATION: BO	
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			ENG DISCIPLINE: MECHANICAL		SHEET 1 of 1

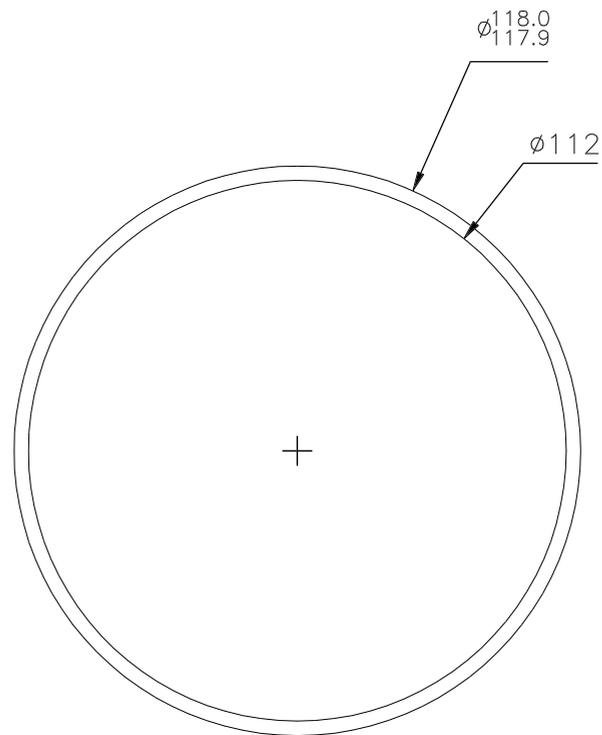
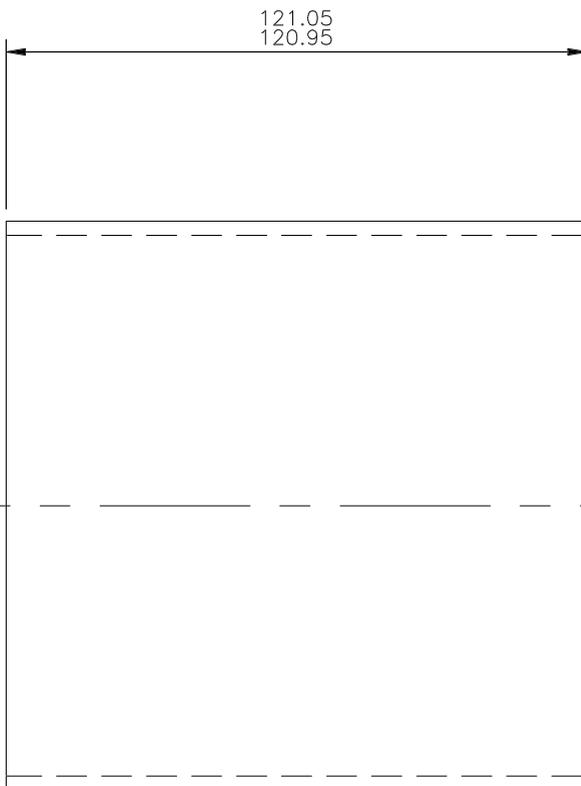
Drawing No: B0270

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THIRD ANGLE 

A
B
C
D
E
F

A
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TITLE: FORE OPTIC SPACER (2-3) INGRID SCIENCE CAMERA		DRAWN BY: PDJ		DATE DRAWN: 21/12/98	
MATERIAL: ALUMINIUM ALLOY 6082 TK	ORIGINAL SCALE: 1:1	MAIN SYSTEM: INGRID	DWG TYPE: PART	LOCATION: BO	
FINISH: CLEAN	SHEET SIZE: A3	SUB-SYSTEM: FORE OPTICS	ITEM: PART	USED ON: B0260	
		ENG DISCIPLINE: MECHANICAL		DRAWING NUMBER: B0270	

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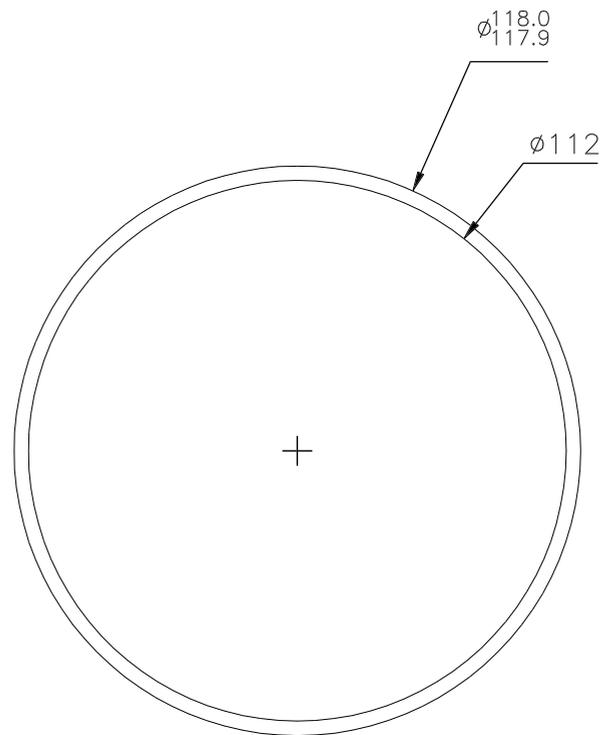
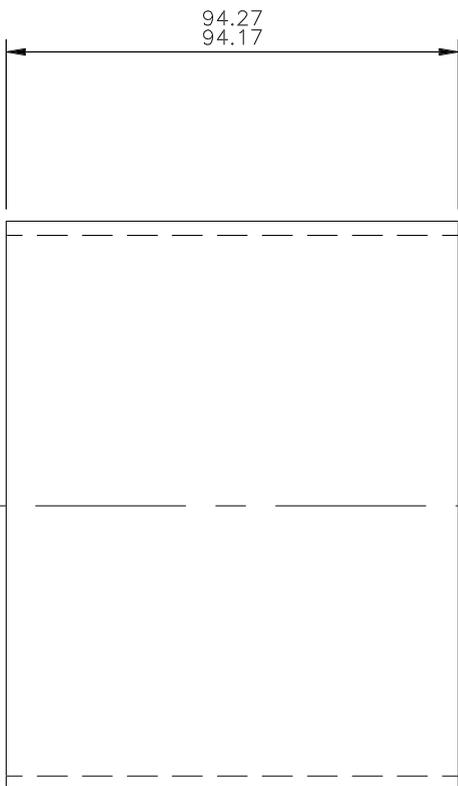
Drawing No: BO271

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THIRD ANGLE 

A
B
C
D
E
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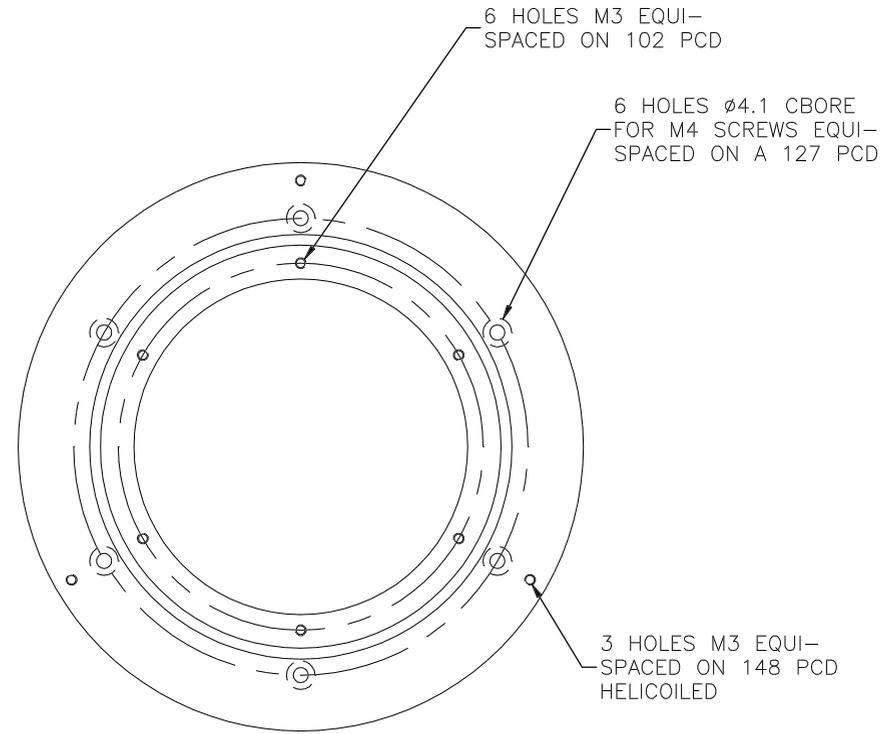
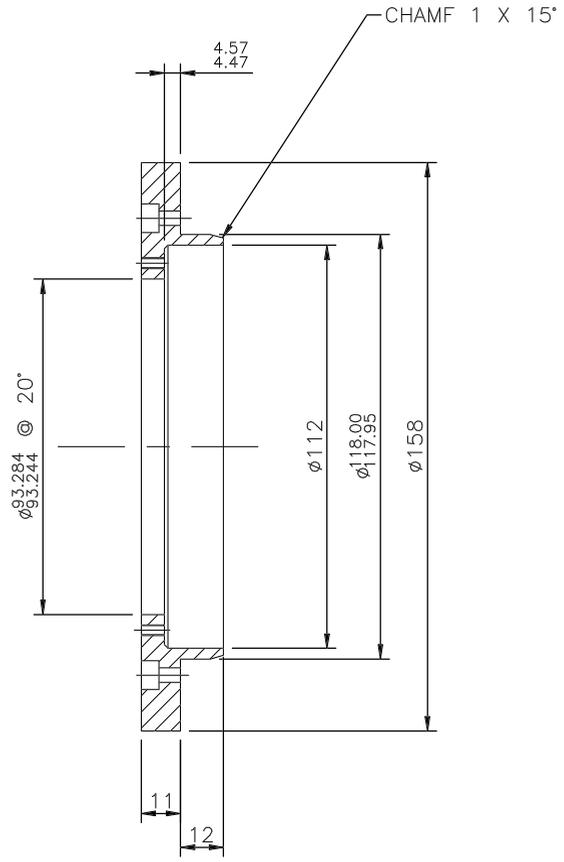
A
B
C
D
E
F



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MATERIAL: ALUMINIUM ALLOY 6082 TK	ORIGINAL SCALE: 1:1	MAIN SYSTEM: INGRID	DWG TYPE: PART	DRAWING NUMBER: BO271 SHEET 1 of 1 USED ON: BO260			
FINISH: CLEAN	SHEET SIZE: A3	SUB-SYSTEM: FORE OPTICS	LOCATION: BO				
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4	PDJ	09/09/99		
3	PDJ	23/08/99		
2	PDJ	8/4/99		
1	PDJ	21/12/98		
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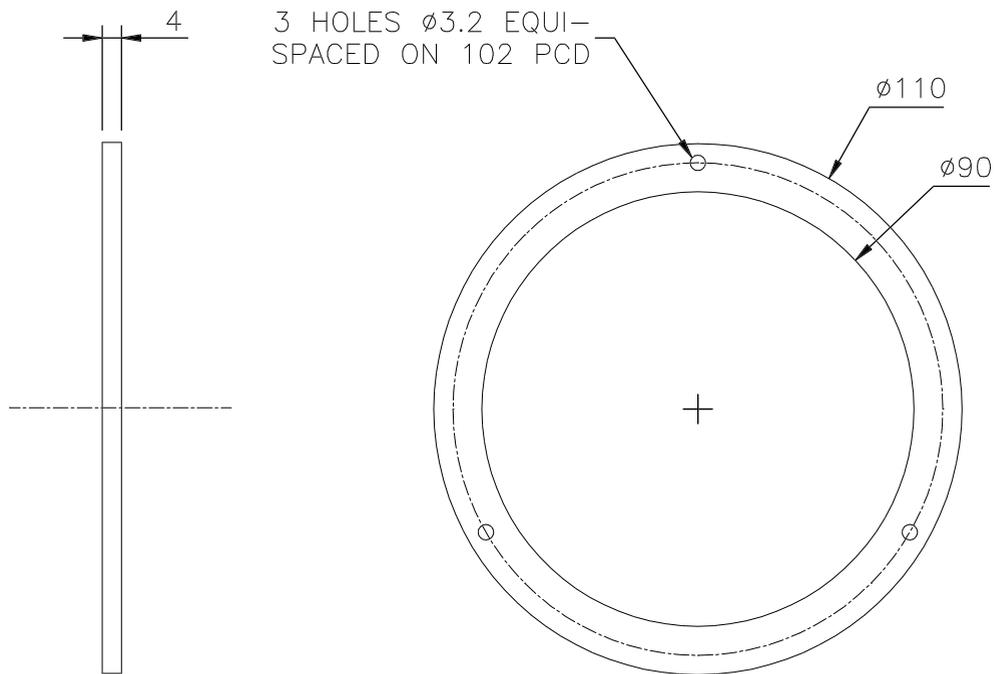
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MATERIAL: ALUMINIUM ALLOY 6082 TF		ORIGINAL SCALE: 1:1	MANUFACTURE: INGRID FORE OPTICS	DWG TYPE: PART BO	DRAWING NUMBER: BO272 SHEET 1 of 1
FINISH: CLEAN		SHEET SIZE: A2	PRODUCTION: PART MECHANICAL	USED ON: B0260	

Drawing No:

B0273

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THIRD ANGLE



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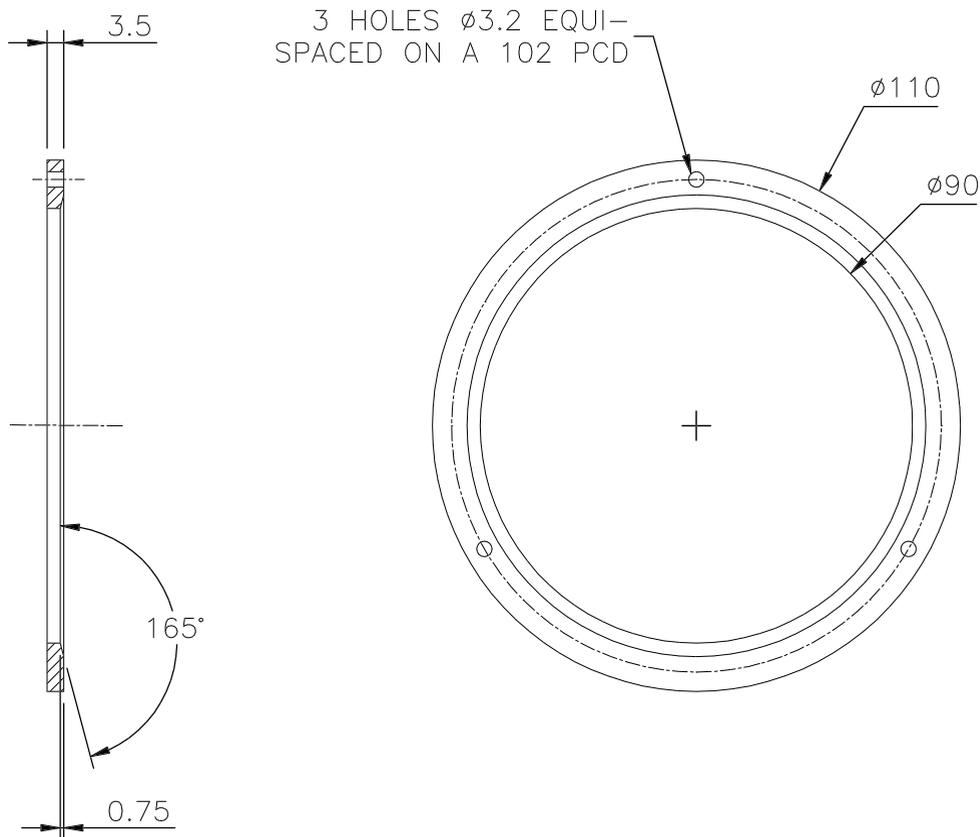
UNLESS OTHERWISE STATED ALL DIMENSIONS IN mm GENERAL TOL: ± 0.1 ANGULAR TOL: ± SURFACE FINISH (MICRONS) ✓ REMOVE ALL SHARP EDGES	TITLE: FIELD LENS RETAINER INGRID SCIENCE CAMERA				ISAAC NEWTON GROUP Apartado de Correos, 321 38780 S/C de La Palma Canary Islands SPAIN Tel: +34 922 425 400
	MATERIAL: DELRIN	ORIGINAL SCALE: 1:1	MAIN SYSTEM: INGRID	DWG TYPE: PART	
	FINISH: CLEAN	SHEET SIZE: A3	SUB-SYSTEM: FORE OPTICS	LOCATION: BO	
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		ENG DISCIPLINE: MECHANICAL	DRAWING NUMBER: B0273	SHEET 1 of 1	

Drawing No:

B0274

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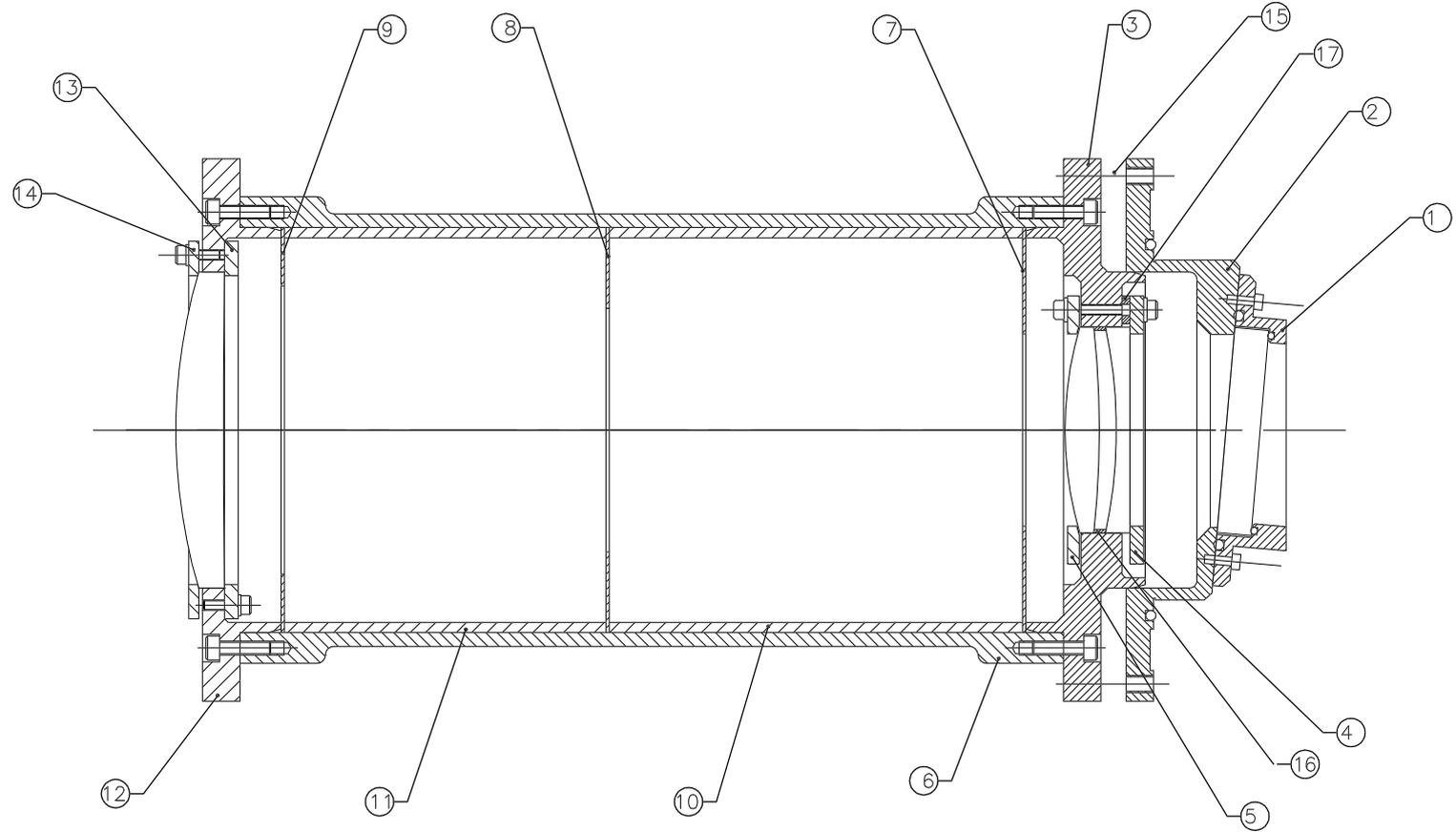
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TITLE: FIELD LENS RETAINER INGRID SCIENCE CAMERA			
MATERIAL: DELTRIN	ORIGINAL SCALE: 1:1	MAIN SYSTEM: INGRID	DWG TYPE: PART
FINISH: CLEAN	SHEET SIZE: A3	SUB-SYSTEM: FORE OPTICS	LOCATION: BO
		ITEM: PART	USED ON: B0260
		ENG DISCIPLINE: MECHANICAL	

ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPRVD
1	PDJ	21/12/98		

ISAAC NEWTON GROUP
 Apartado de Correos, 321
 38780 S/C de La Palma
 Canary Islands
 SPAIN
 Tel: +34 922 425 400

DRAWING NUMBER: B0274
 SHEET 1 of 1



2	PDJ	23/08/99		
1	PDJ	21/12/98		
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPROV

UNLESS OTHERWISE STATED
 ALL DIMENSIONS IN mm
 GENERAL TOL: ±
 ANGULAR TOL: ±
 SURFACE FINISH (MICRONS)
 REMOVE ALL SHARP EDGES

TITLE: FORE OPTICS GENERAL ASSEMBLY INGRID SCIENCE CAMERA (DOUBLET)			
MATERIAL:	ORIGINAL SCALE	MAN SYSTEM	DWG TYPE
	1:1	INGRID	GA
FINISH:	SHEET SIZE	FOR OPTICS	LOCATION
	A2	ASSEMBLY	BO
		MECHANICAL	USED ON
			BO100

ISAC NEWTON GROUP
 Apartado de Correos, 521
 38700 S/C de La Palma
 Canary Islands
 SPAIN
 Tel: +34 922 485 400

DRAWING NUMBER: BO260
 SHEET 1 of 1

Drawing No:

BO276

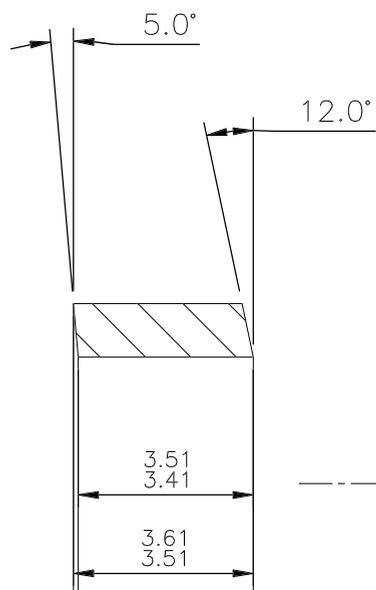
DO NOT SCALE IF IN DOUBT ASK

THIRD ANGLE

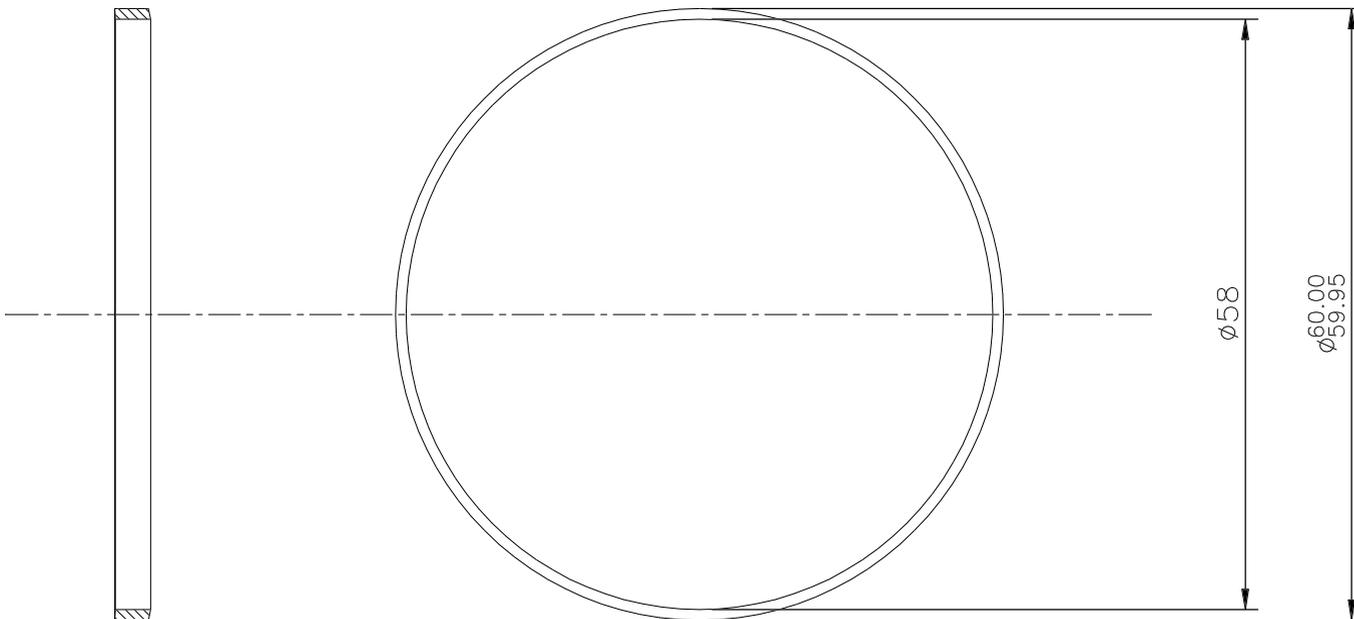


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DETAIL OF EDGE PROFILE
SCALE 10:1



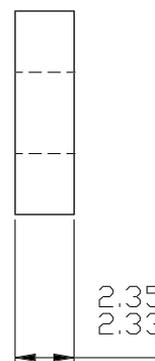
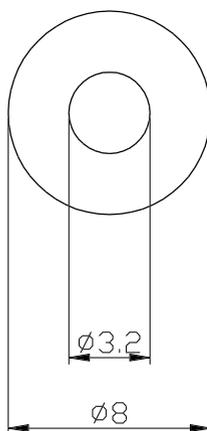
2	PDJ	7/3/99		
1	PDJ	21/12/98		
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPRVD

<p>UNLESS OTHERWISE STATED</p> <p>ALL DIMENSIONS IN mm</p> <p>GENERAL TOL: ± 0.1</p> <p>ANGULAR TOL: ± 0.1</p> <p>SURFACE FINISH (MICRONS) ✓</p> <p>REMOVE ALL SHARP EDGES</p> <p><small>This document belongs to the ISAAC NEWTON GROUP of TELESCOPES and may not be copied, reproduced or displayed in whole or in part without the express written consent of the ISAAC NEWTON GROUP of TELESCOPES</small></p>	<p>TITLE: DOUBLET SPACER INGRID SCIENCE CAMERA</p>				<p>ISAAC NEWTON GROUP Apartado de Correos, 321 38780 S/C de La Palma Canary Islands SPAIN Tel: +34 922 425 400</p>			
	MATERIAL: DELRIN	ORIGINAL SCALE: 2:1	MAIN SYSTEM: INGRID	DWG TYPE: PART	<p>DRAWING NUMBER: BO276 SHEET 1 of 1</p>			
	FINISH: CLEAN	SHEET SIZE: A3	SUB-SYSTEM: FORE OPTICS	LOCATION: BO				
			ITEM: PART	USED ON: BO260				
		ENG DISCIPLINE: MECHANICAL						

Drawing No
B0277

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THIRD ANGLE 



1	PDJ	23/08/99		
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPRVD

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	MATERIAL: Aluminium Alloy 6082 TF	ORIGINAL SCALE: 5:1	MAIN SYSTEM: INGRID	DWG TYPE: Part	
	FINISH: Clean	SHEET SIZE: A3	SUB-SYSTEM: Fore optics	LOCATION: BO	
			ITEM: Part	USED ON: B0260	
		ENG DISCIPLINE: MECHANICAL			<p>DRAWING NUMBER: B0277</p> <p>SHEET 1 of 1</p>

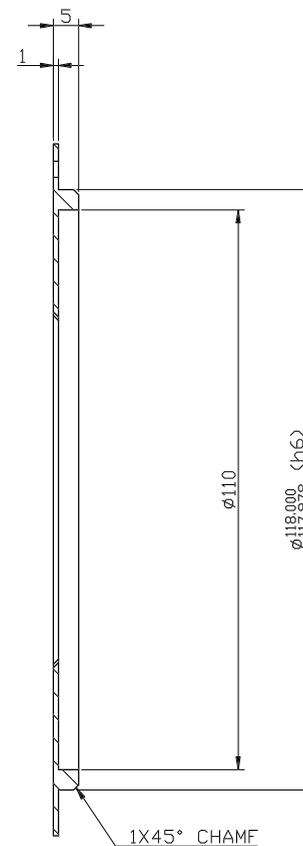
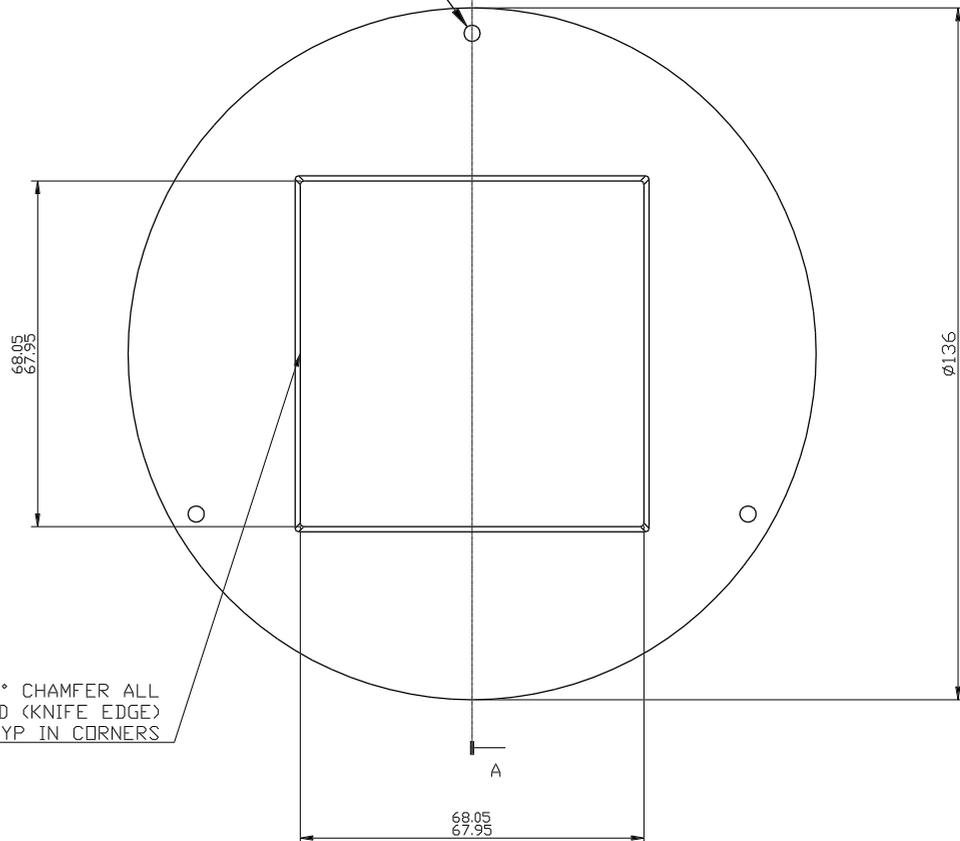
Drawing No B0278

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THIRD ANGLE 

3 HOLES Ø3.2 EQUI SPACED ON 126 PCD

45° CHAMFER ALL ROUND (KNIFE EDGE) R1 TYP IN CORNERS



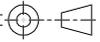
SECTION A-A

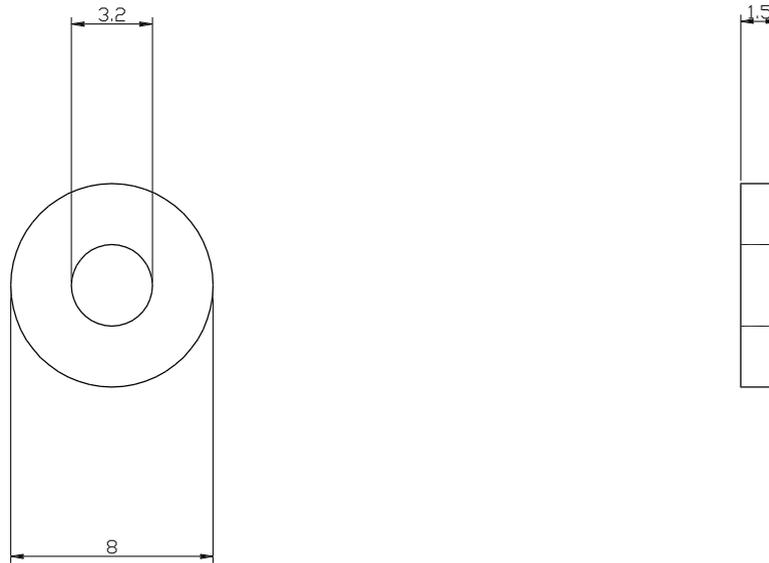
1	PDJ	8/4/99		
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPRVD

<p>UNLESS OTHERWISE STATED ALL DIMENSIONS IN mm GENERAL TOL: ± 0.1 ANGULAR TOL: ± SURFACE FINISH (MICRONS) ✓ REMOVE ALL SHARP EDGES</p> <p><small>This document belongs to the ISAAC NEWTON GROUP of TELESCOPES and may not be copied, reproduced or employed in whole or in part without the express written consent of the ISAAC NEWTON GROUP of TELESCOPES</small></p>	<p>TITLE: FIELD MASK INGRID FIELD STOP ASSY</p>			<p>ISAAC NEWTON GROUP Apartado de Correos, 321 38780 S/C de La Palma Canary Islands SPAIN Tel: +34 922 425 400</p>		
	<p>MATERIAL: ALUMINIUM ALLOY 6082 TF</p>	<p>ORIGINAL SCALE: 1:1</p>	<p>MAIN SYSTEM: INGRID</p>	<p>DWG TYPE: PART</p>		
	<p>FINISH: CLEAN</p>	<p>SHEET SIZE: A3</p>	<p>SUB-SYSTEM: FOREOPTICS</p>	<p>LOCATION: BO</p>		
			<p>ITEM: PART</p>	<p>USED ON: BO260</p>	<p>DRAWING NUMBER: B0278</p>	<p>SHEET 1 of 1</p>

Drawing No
B0279

DO NOT SCALE IF IN DOUBT ASK

THIRD ANGLE 



1	PDJ	8/4/99		
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPRVD

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	<p>MATERIAL: ALLUMINIUM ALLOY 6082 TF</p>	<p>ORIGINAL SCALE 5:1</p>	<p>MAIN SYSTEM INGRID</p>	<p>DWG TYPE PART</p>	<p>DRAWING NUMBER B0279 SHEET 1 of 1</p>	
	<p>FINISH: CLEAN</p>	<p>SHEET SIZE A3</p>	<p>SUB-SYSTEM FORE OPTICS</p>	<p>LOCATION BO</p>		
	<p>ENG DISCIPLINE MECHANICAL</p>	<p>ITEM PART</p>	<p>USED ON B0260</p>			

Drawing No:

BO276

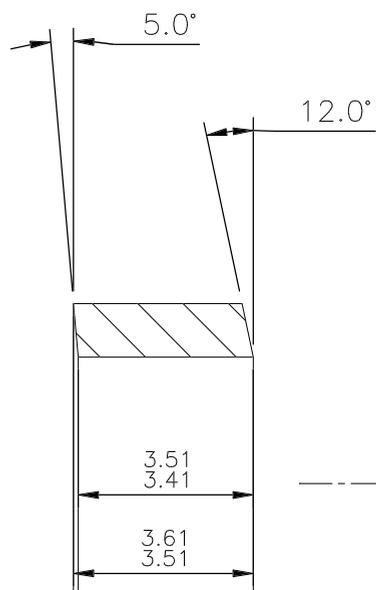
DO NOT SCALE IF IN DOUBT ASK

THIRD ANGLE

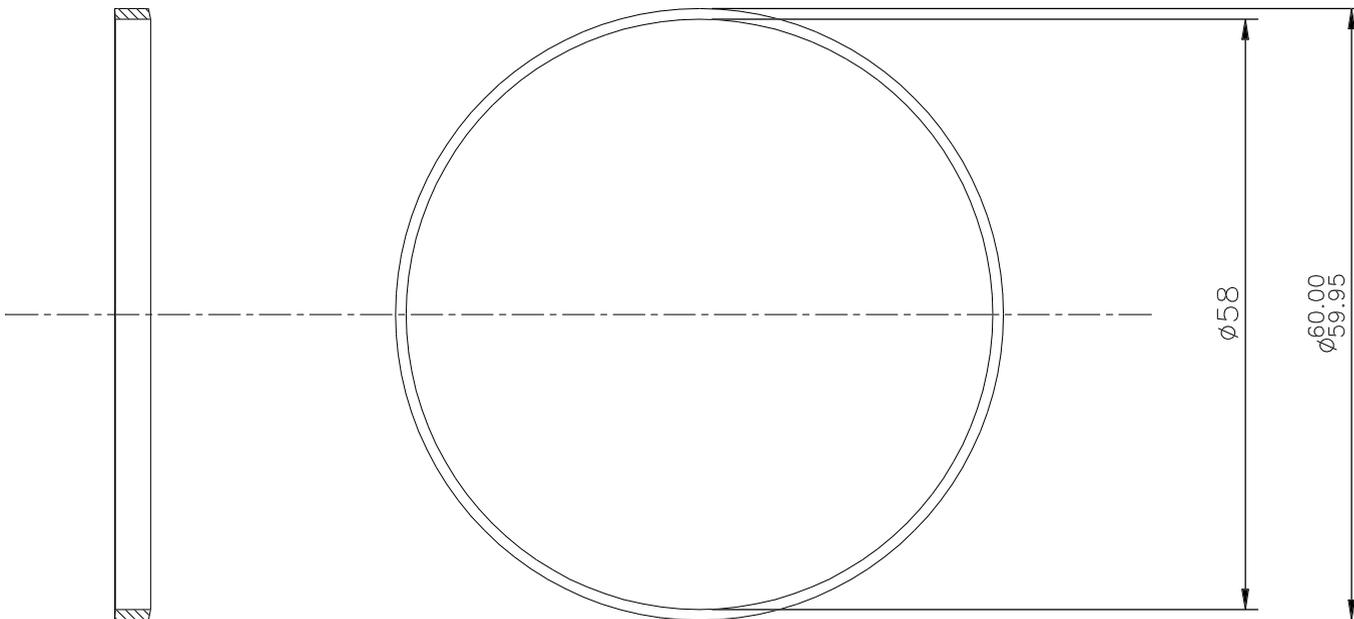


A
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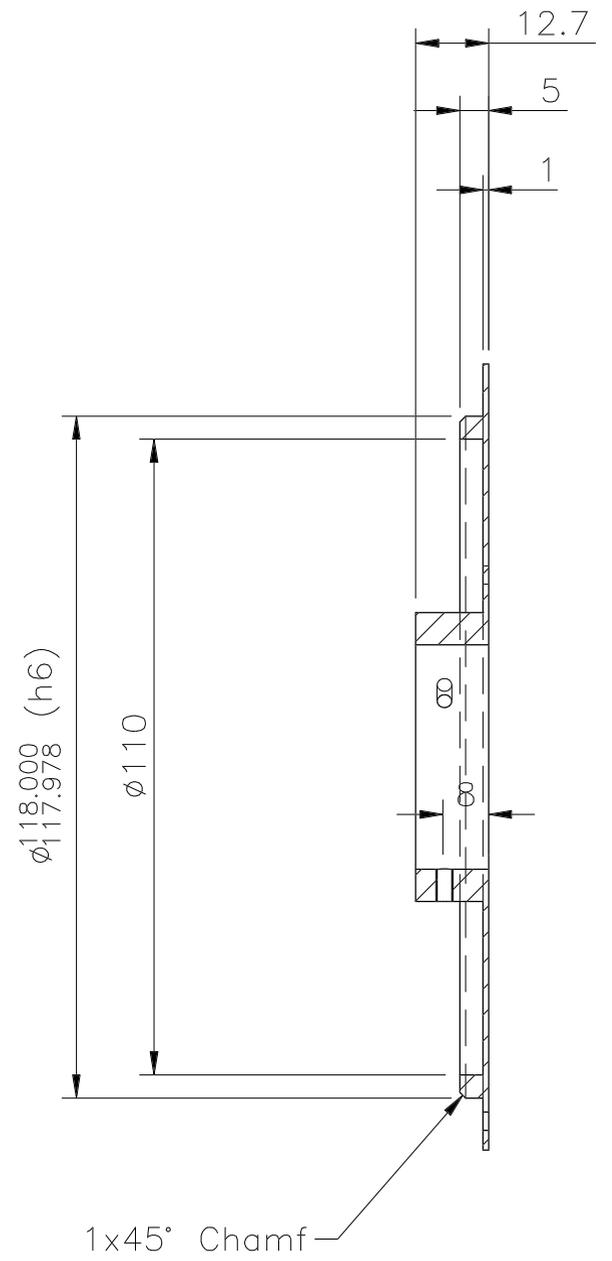
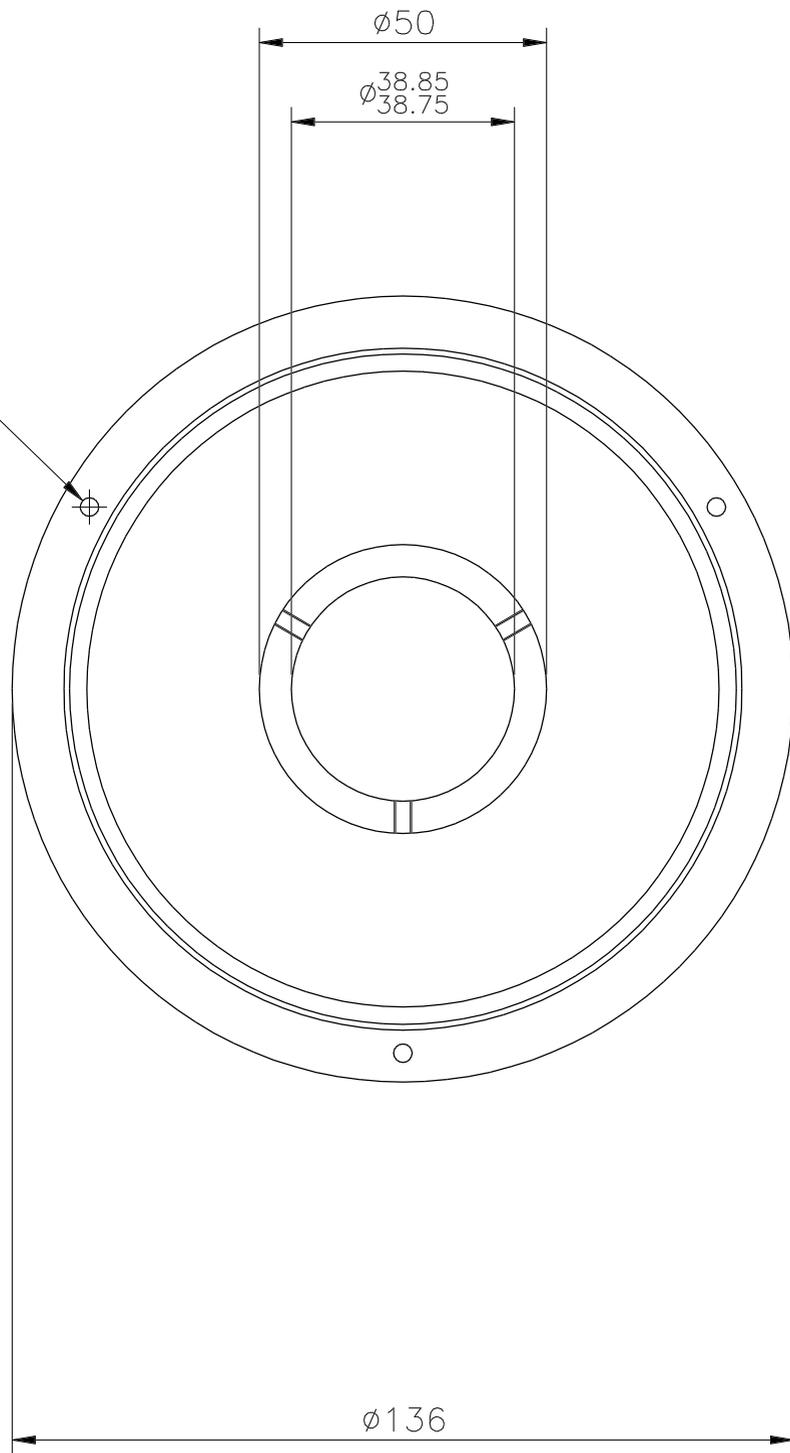
DETAIL OF EDGE PROFILE
SCALE 10:1

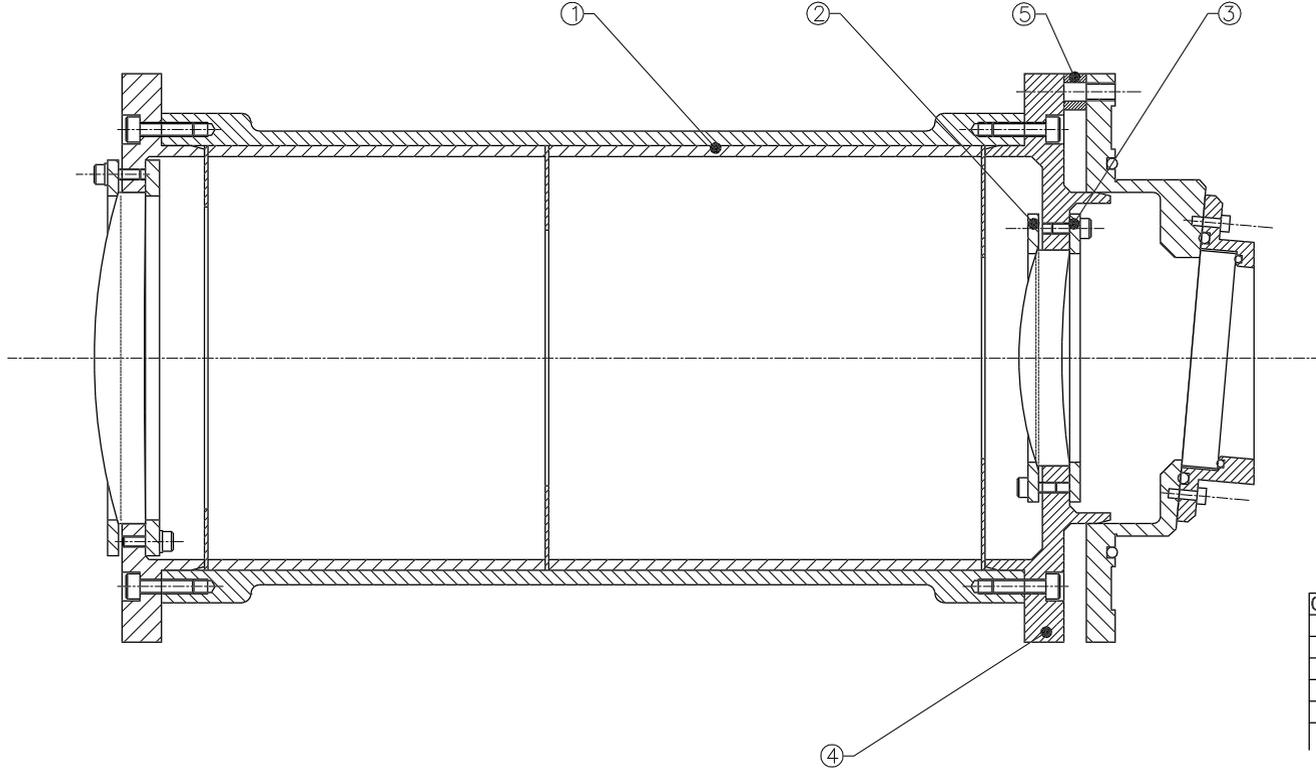


2	PDJ	7/3/99		
1	PDJ	21/12/98		
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPRVD

<p>UNLESS OTHERWISE STATED</p> <p>ALL DIMENSIONS IN mm</p> <p>GENERAL TOL: ± 0.1</p> <p>ANGULAR TOL: ± 0.1</p> <p>SURFACE FINISH (MICRONS) ✓</p> <p>REMOVE ALL SHARP EDGES</p> <p><small>This document belongs to the ISAAC NEWTON GROUP of TELESCOPES and may not be copied, reproduced or displayed in whole or in part without the express written consent of the ISAAC NEWTON GROUP of TELESCOPES</small></p>	TITLE:		DOUBLET SPACER INGRID SCIENCE CAMERA		<p>ISAAC NEWTON GROUP</p> <p>Apartado de Correos, 321 38780 S/C de La Palma Canary Islands SPAIN</p> <p>Tel: +34 922 425 400</p>		
	MATERIAL:	DELTRIN	ORIGINAL SCALE	2:1	MAIN SYSTEM	INGRID	
	FINISH:	CLEAN	SHEET SIZE	A3	SUB-SYSTEM	FORE OPTICS	
					ITEM	PART	
				ENG DISCIPLINE	MECHANICAL	DWG TYPE	PART
						LOCATION	BO
						USED ON	BO260
						DRAWING NUMBER	BO276
							SHEET 1 of 1

3- ϕ 3.2 Equispaced
on a 126 PCD





GA No.	Dwg. No.	Rev.	Title	No. Off	Material
1	B0260	2	Fore Optic GA	1	Existing
2	B0351	1	Retaining Ring	1	Delrin
3	B0352	1	Retaining Ring	1	Delrin
4	B0353	1	Holder	1	AllyAlloy
5	B0354	1	Shim - Aspheric	3	SST

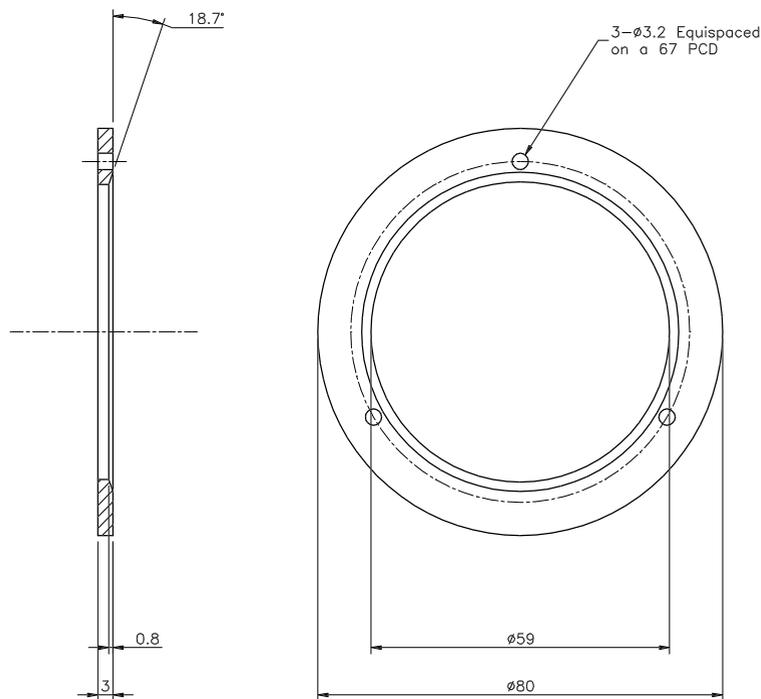
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPROV
1	PDJ	30/9/99		

<p>UNLESS OTHERWISE STATED ALL DIMENSIONS IN mm GENERAL TOL: ± ANGULAR TOL: ± SURFACE FINISH (MICRONS) REMOVE ALL SHARP EDGES</p>		<p>TITLE: FORE OPTICS ASSEMBLY (ASHPERIC) INGRID SCIENCE CAMERA</p>		<p>ISAAC NEWTON GROUP Apartado de Correos, 521 38760 S/C de La Palma Canary Islands SPAIN Tel: +34 922 485 400</p>	
<p>MATERIAL:</p>		<p>ORIGINAL SCALE: 1:1</p>	<p>MANUFACTURER: INGRID</p>	<p>DWG TYPE: GA</p>	<p>DRAWING NUMBER: B0350</p>
<p>FINISH:</p>		<p>SHEET SIZE: A2</p>	<p>REP: FORE OPTICS</p>	<p>LOCATOR: BO</p>	
<p><small>THIS DRAWING BELONGS TO THE ISAAC NEWTON GROUP OF TELESCOPES and may not be copied, reproduced or otherwise used in any way without the express written consent of the ISAAC NEWTON GROUP OF TELESCOPES</small></p>		<p>ISO DISCIPLINE: MECHANICAL</p>	<p>USED ON: B0100</p>	<p>SHEET 1 of 1</p>	

Drawing No: B0351

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THIRD ANGLE

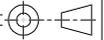


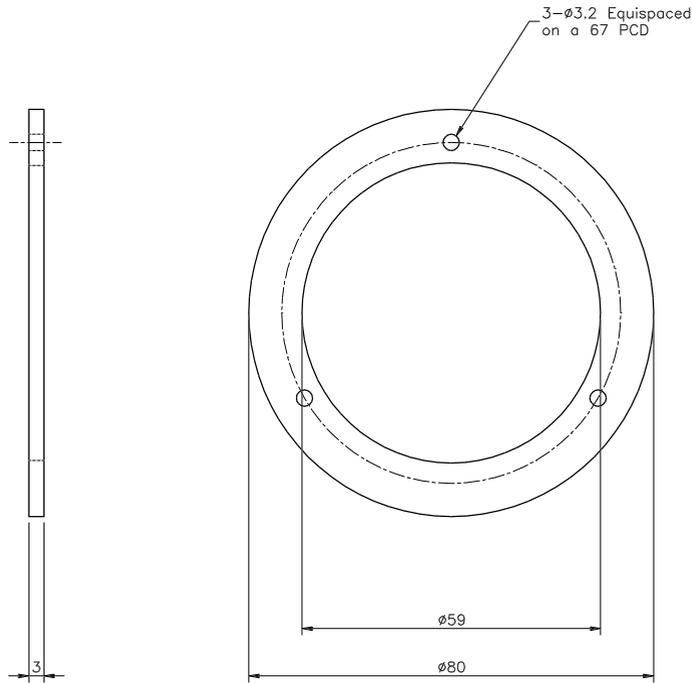
1	PDJ	30/08/99		
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPRVD

<p>UNLESS OTHERWISE STATED</p> <p>ALL DIMENSIONS IN mm</p> <p>GENERAL TOL: ± 0.1</p> <p>ANGULAR TOL: ± 0.1</p> <p>SURFACE FINISH (MICRONS) ✓</p> <p>REMOVE ALL SHARP EDGES</p> <p><small>This document belongs to the ISAAC NEWTON GROUP of TELESCOPES and may not be copied, reproduced or displayed in whole or in part without the express written consent of the ISAAC NEWTON GROUP of TELESCOPES</small></p>	<p>TITLE: Aspheric Retaining Ring (Front) INGRID SCIENCE CAMERA</p>			<p>ISAAC NEWTON GROUP Apartado de Correos, 321 38780 S/C de La Palma Canary Islands SPAIN Tel: +34 922 425 400</p>	
	MATERIAL: Delrin	ORIGINAL SCALE: 1:1	MAIN SYSTEM: INGRID	DWG TYPE: PART	
	FINISH: CLEAN	SHEET SIZE: A3	SUB-SYSTEM: FORE OPTICS	LOCATION: BO	
			ITEM: PART	USED ON: B0350	
		ENG DISCIPLINE: MECHANICAL	DRAWING NUMBER: B0351		
			SHEET 1 of 1		

Drawing No: B0352

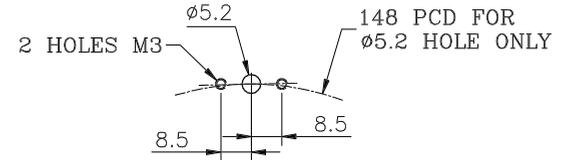
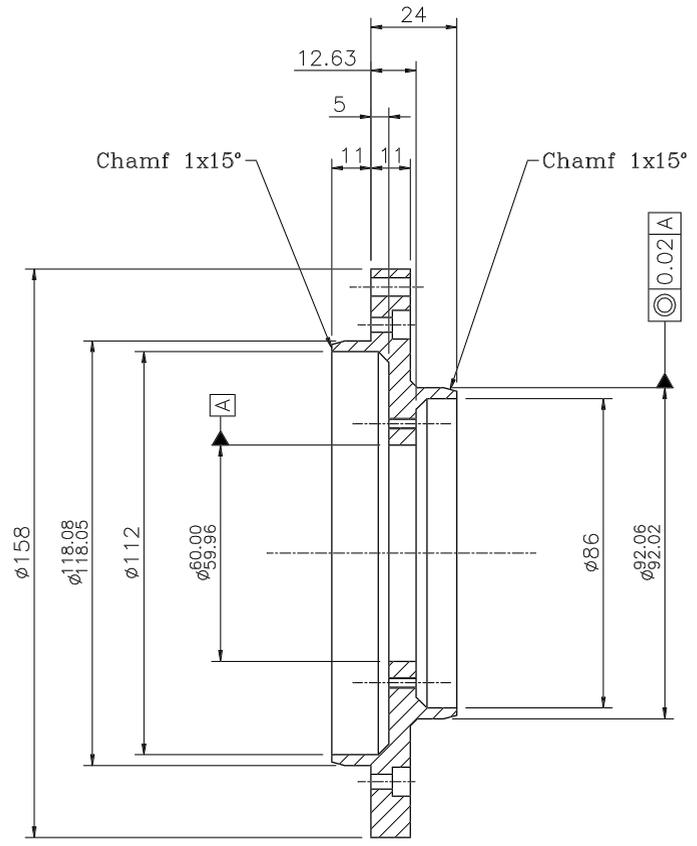
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THIRD ANGLE 



1	PDJ	30/08/99		
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPRVD

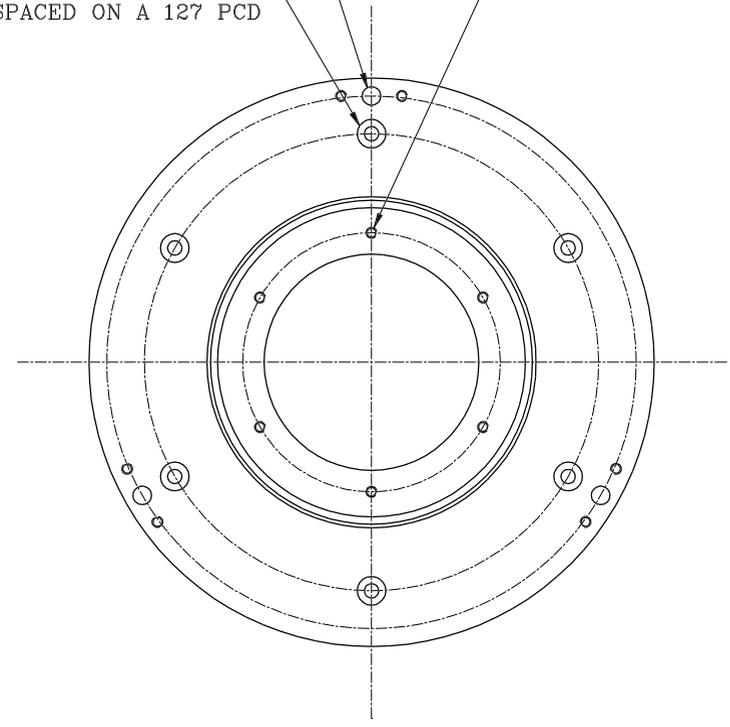
<p>UNLESS OTHERWISE STATED</p> <p>ALL DIMENSIONS IN mm</p> <p>GENERAL TOL: ± 0.1</p> <p>ANGULAR TOL: ± 0.1</p> <p>SURFACE FINISH (MICRONS) ✓</p> <p>REMOVE ALL SHARP EDGES</p> <p><small>This document belongs to the ISAAC NEWTON GROUP of TELESCOPES and may not be copied, reproduced or displayed in whole or in part without the express written consent of the ISAAC NEWTON GROUP of TELESCOPES</small></p>	TITLE: Aspheric Retaining Ring (Rear) INGRID SCIENCE CAMERA			<p>ISAAC NEWTON GROUP Apartado de Correos, 321 38780 S/C de La Palma Canary Islands SPAIN Tel: +34 922 425 400</p>	
	MATERIAL: Delrin	ORIGINAL SCALE: 1:1	MAIN SYSTEM: INGRID	DWG TYPE: PART	
	FINISH: CLEAN	SHEET SIZE: A3	SUB-SYSTEM: FORE OPTICS	LOCATION: BO	
			ITEM: PART	USED ON: B0350	
		ENG DISCIPLINE: MECHANICAL	DRAWING NUMBER: B0352	SHEET 1 of 1	



3 HOLES SETS EQUI-SPACED ON 148 PCD

6 HOLES Ø4.2 CBORE FOR M4 SCREWS EQUI-SPACED ON A 127 PCD

6-M3 Equispaced ON 67 PCD



2	PDJ	27/11/00		
1	PDJ	30/8/99		
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPROV

UNLESS OTHERWISE STATED ALL DIMENSIONS IN mm GENERAL TOL: ± 0.1 ANGULAR TOL: ± 0.1 SURFACE FINISH (MICRONS) REMOVE ALL SHARP EDGES	TITLE:	Aspheric Holder INGRID SCIENCE CAMERA		
	MATERIAL:	Aluminium Alloy 6082 TF	ORIGINAL SCALE:	1:1
	FINISH:	Clean	SHEET SIZE:	A2
			DATE ON:	B0350
		DATE TYPE:	GA	
		DATE LOCATION:	BO	
		DATE ON:	ASSEMBLY	
		DATE MECHANICAL:		

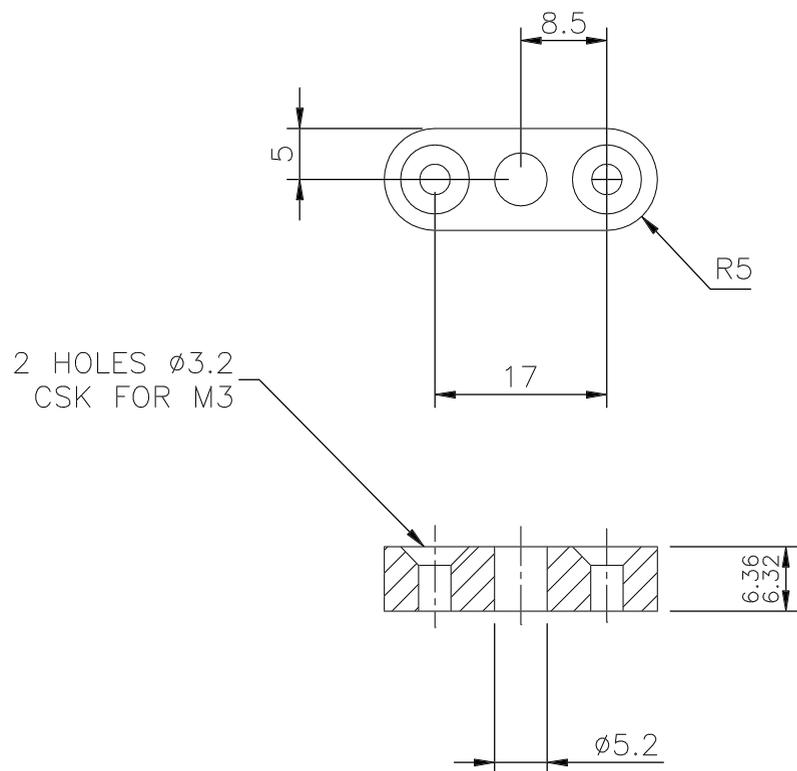
ISAC NEWTON GROUP
 Apartado de Correos, 521
 38700 S/C de La Palma
 Canary Islands
 SPAIN
 Tel: +34 922 485 400

DRAWING NUMBER: B0353
 SHEET 1 of 1

Drawing No: B0354

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THIRD ANGLE 



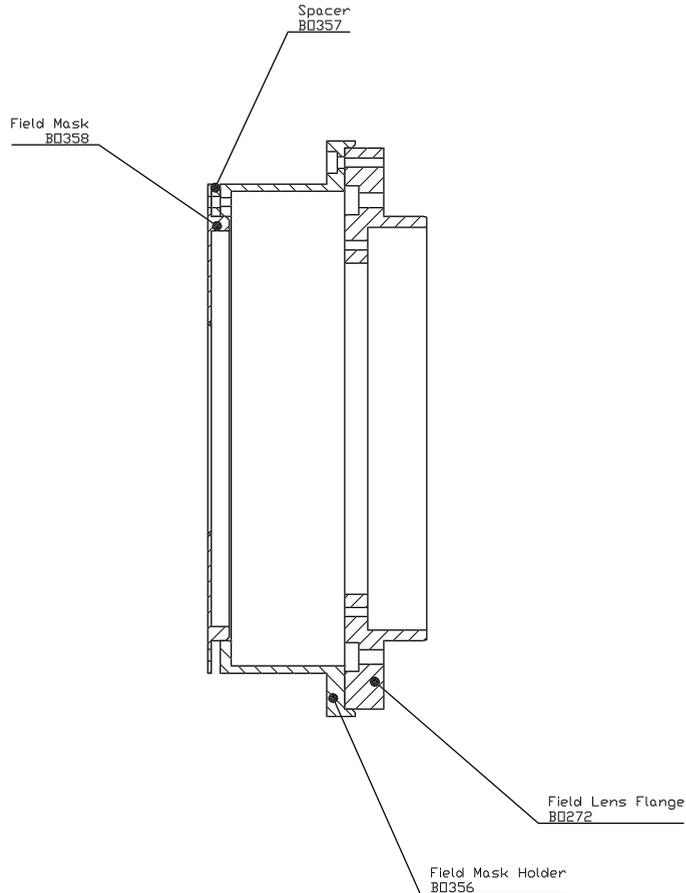
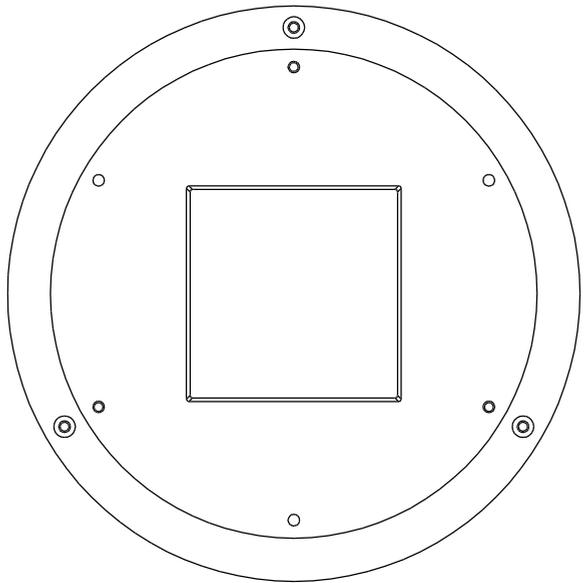
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPRVD
1	PDJ	30/8/99		

<p>UNLESS OTHERWISE STATED</p> <p>ALL DIMENSIONS IN mm</p> <p>GENERAL TOL: ± 0.1</p> <p>ANGULAR TOL: ± 0.1</p> <p>SURFACE FINISH (MICRONS) ✓</p> <p>REMOVE ALL SHARP EDGES</p> <p><small>This document belongs to the ISAAC NEWTON GROUP of TELESCOPES and may not be copied, reproduced or displayed in whole or in part without the express written consent of the ISAAC NEWTON GROUP of TELESCOPES</small></p>	<p>TITLE: Shim - Aspheric INGRID SCIENCE CAMERA</p>			<p>ISAAC NEWTON GROUP Apartado de Correos, 321 38780 S/C de La Palma Canary Islands SPAIN Tel: +34 922 425 400</p>	
	<p>MATERIAL: STAINLESS STEEL 304</p>	<p>ORIGINAL SCALE: 1:1</p>	<p>MAIN SYSTEM: INGRID</p>	<p>DWG TYPE: PART</p>	
	<p>FINISH: CLEAN</p>	<p>SHEET SIZE: A3</p>	<p>SUB-SYSTEM: FORE OPTICS</p>	<p>LOCATION: BO</p>	
			<p>ITEM: PART</p>	<p>USED ON: B0350</p>	
		<p>ENG DISCIPLINE: MECHANICAL</p>	<p>DRAWING NUMBER: B0354</p>		
			<p>SHEET 1 of 1</p>		

Drawing No B0355

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THIRD ANGLE 

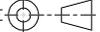


1	PDJ	10/12/99		
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPROV

<p>UNLESS OTHERWISE STATED</p> <p>ALL DIMENSIONS IN mm</p> <p>GENERAL TOL: ±</p> <p>ANGULAR TOL: ±</p> <p>SURFACE FINISH (MICRONS)</p> <p>REMOVE ALL SHARP EDGES</p> <p><small>File drawings belong to the ISAC/NEWTON GROUP of SPAIN/INGRID and may not be copied, reproduced or otherwise used in any way without the express written consent of the ISAC/NEWTON GROUP of SPAIN/INGRID</small></p>	<p>TITLE: Field Mask Sub Assembly INGRID F11 Foreoptics</p>		<p>ISAC/NEWTON GROUP Apartado de Correos, SGI 38760 S/C de La Palma Canary Islands SPAIN Tel: +34 922 485 400</p>	
	MATERIAL:	ORIGINAL SCALE: 1:1	MAN SYSTEM: INGRID	DWG TYPE: Assembly
	FINISH:	SHEET SIZE: A2	FIN: Foreoptics	LOCATOR: BO
			ISS DISCIPLINE: MECHANICAL	ISS ON: B0260
DRAWING NUMBER: B0355			SHEET 1 of 1	

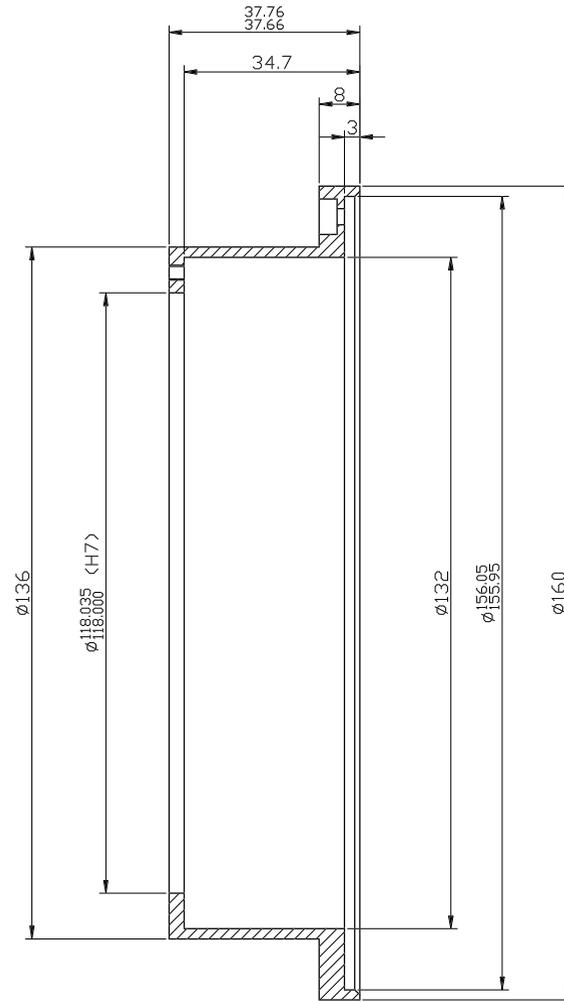
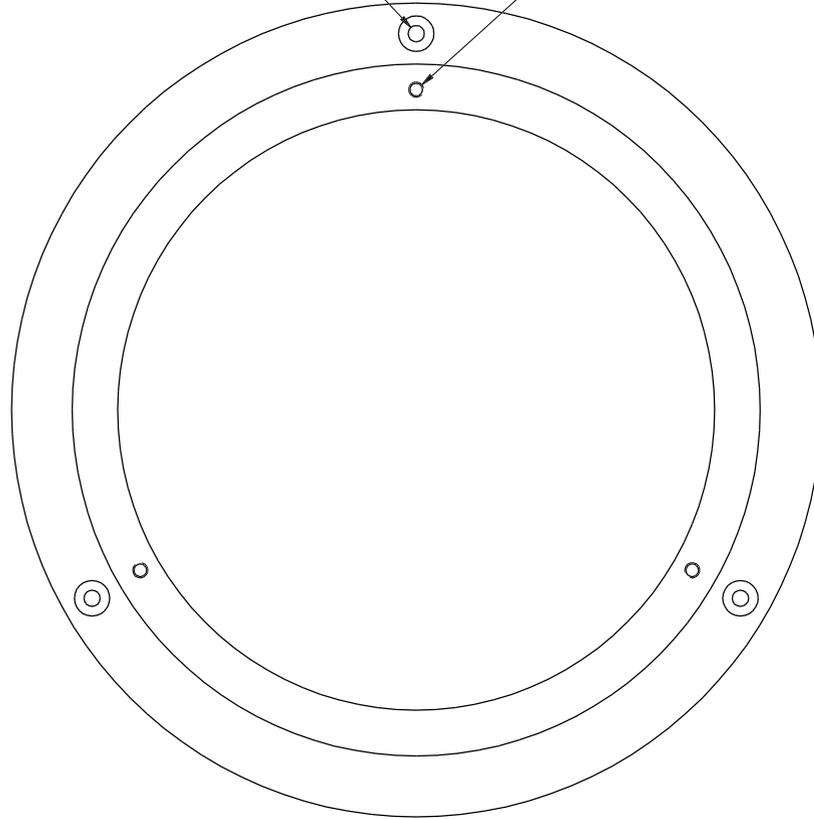
Drawing No
B0356

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THIRD ANGLE 

3- \varnothing 3.2 Bore \varnothing 7.2
3.5 deep equispaced
on 148 PCD

3-M3 Equispaced
on 126PCD Helicoiled

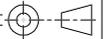


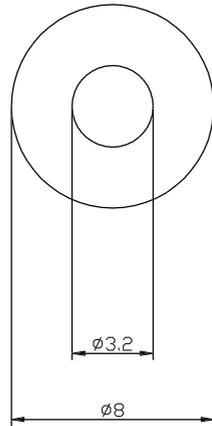
1	PDJ	10/12/99		
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPRVD

<p>UNLESS OTHERWISE STATED ALL DIMENSIONS IN mm GENERAL TOL: \pm 0.1 ANGULAR TOL: \pm SURFACE FINISH 1.6 \checkmark (MICRONS) REMOVE ALL SHARP EDGES</p> <p><small>This document belongs to the ISAAC NEWTON GROUP of TELESCOPES and may not be copied, reproduced or displayed in whole or in part without the express written consent of the ISAAC NEWTON GROUP of TELESCOPES</small></p>	TITLE: Field Mask Holder INGRID F11 Foreoptics			<p>ISAAC NEWTON GROUP Apartado de Correos, 321 38780 S/C de La Palma Canary Islands SPAIN Tel: +34 922 425 400</p>	
	MATERIAL: Aluminium Alloy 6082 TF	ORIGINAL SCALE 1:1	MAIN SYSTEM INGRID	DWG TYPE Part	
	FINISH: Clean	SHEET SIZE A3	SUB-SYSTEM Foreoptics	LOCATION BO	
			ITEM Part	USED ON B0355	
		ENG DISCIPLINE MECHANICAL		DRAWING NUMBER B0356	SHEET 1 of 1

Drawing No
B0357

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THIRD ANGLE 



1	PDJ	10/12/99		
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPRVD

UNLESS OTHERWISE STATED
 ALL DIMENSIONS IN mm
 GENERAL TOL: ± 0.1
 ANGULAR TOL: ±
 SURFACE FINISH (MICRONS) ✓
 REMOVE ALL SHARP EDGES

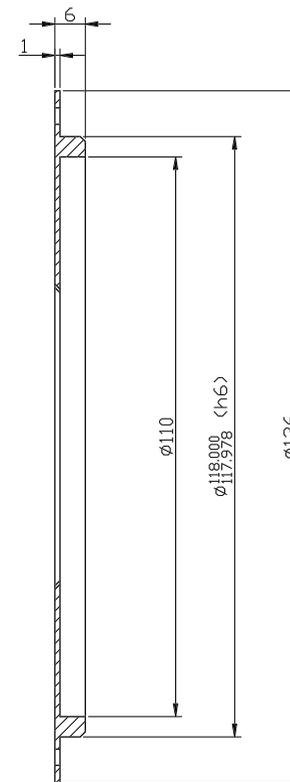
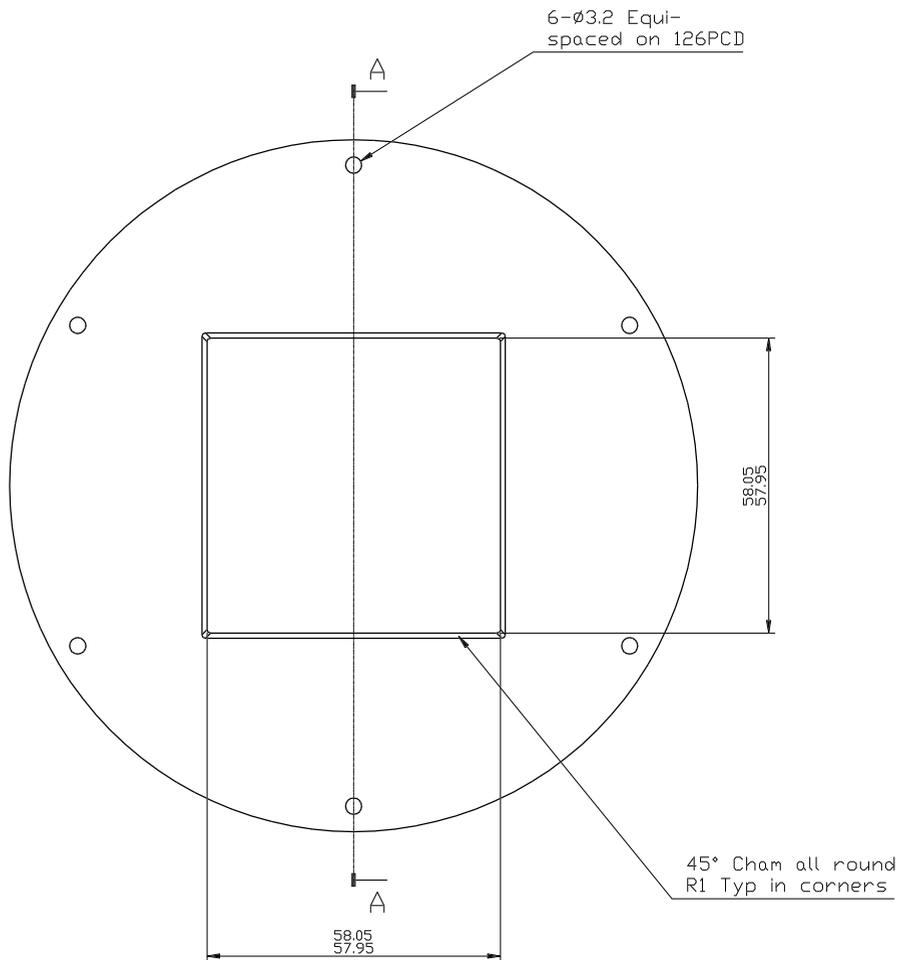
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TITLE:
Field Mask Spacer For Doublet INGRID F11 Foreoptics

MATERIAL: Aluminium Alloy Dural	ORIGINAL SCALE: 5:1	MAIN SYSTEM: INGRID	DWG TYPE: Part
FINISH: Clean	SHEET SIZE: A3	SUB-SYSTEM: Foreoptics	LOCATION: BO
		ITEM: Part	USED ON: B0355
		ENG DISCIPLINE: MECHANICAL	

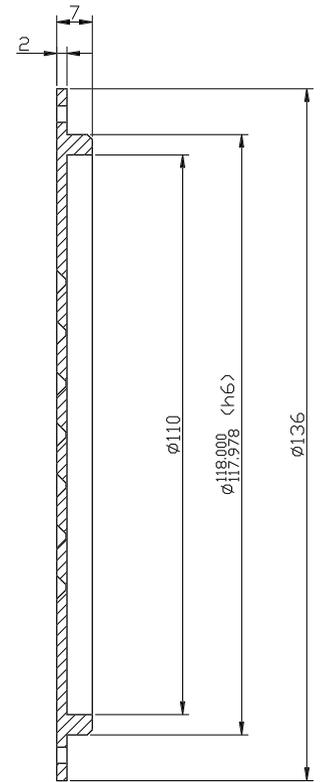
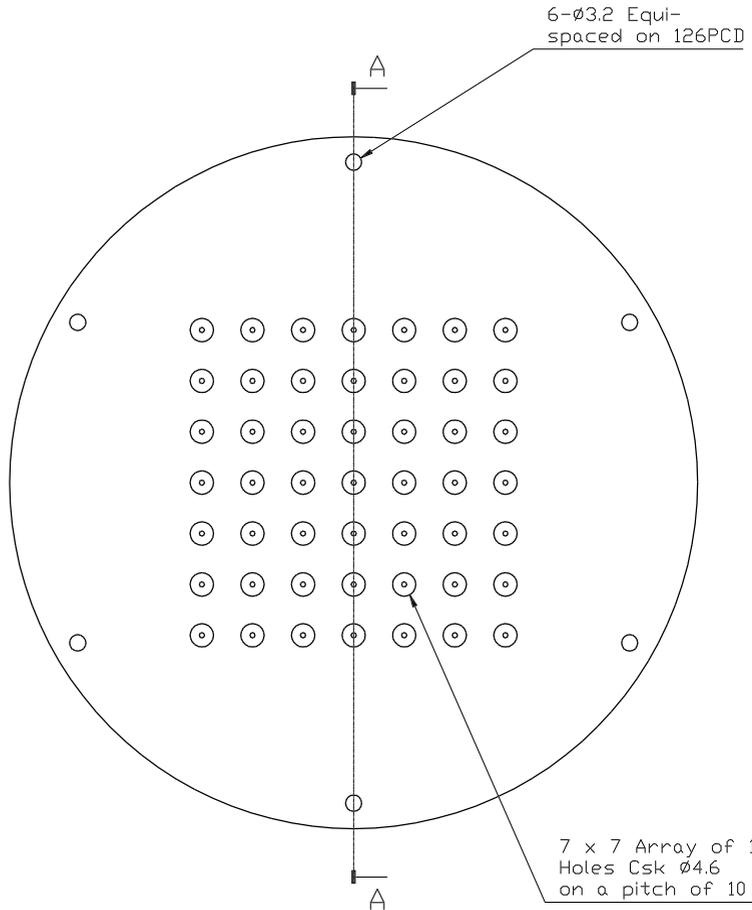
ISAAC NEWTON GROUP
 Apartado de Correos, 321
 38780 S/C de La Palma
 Canary Islands
 SPAIN
 Tel: +34 922 425 400

DRAWING NUMBER: B0357
SHEET 1 of 1



1	PDJ	10/12/99		
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPRVD

<p>UNLESS OTHERWISE STATED</p> <p>ALL DIMENSIONS IN mm</p> <p>GENERAL TOL: ± 0.1</p> <p>ANGULAR TOL: ±</p> <p>SURFACE FINISH (MICRONS) 1.6 ✓</p> <p>REMOVE ALL SHARP EDGES</p> <p><small>This document belongs to the ISAAC NEWTON GROUP of TELESCOPES and may not be copied, reproduced or displayed in whole or in part without the express written consent of the ISAAC NEWTON GROUP of TELESCOPES</small></p>	<p>TITLE:</p> <p style="text-align: center;">Field Mask INGRID F11 foreoptics</p>		<p>ISAAC NEWTON GROUP Apartado de Correos, 321 38780 S/C de La Palma Canary Islands SPAIN Tel: +34 922 425 400</p>		
	<p>MATERIAL: Aluminium Alloy 6082 TF</p>	<p>ORIGINAL SCALE: 1:1</p>	<p>MAIN SYSTEM: INGRID</p>	<p>DWG TYPE: Part</p>	
	<p>FINISH: Clean</p>	<p>SHEET SIZE: A3</p>	<p>SUB-SYSTEM: Foreoptics</p>	<p>LOCATION: BO</p>	
			<p>ITEM: Part</p>	<p>USED ON: B0355</p>	<p>DRAWING NUMBER: B0358</p>
		<p>ENG DISCIPLINE: MECHANICAL</p>		<p>SHEET 1 of 1</p>	



1	PDJ	10/12/99		
ISS	DRAWN By	DATE DRAWN	APPROVED By	DATE APPRVD

<p>UNLESS OTHERWISE STATED</p> <p>ALL DIMENSIONS IN mm</p> <p>GENERAL TOL: \pm 0.1</p> <p>ANGULAR TOL: \pm</p> <p>SURFACE FINISH (MICRONS) 1.6 ✓</p> <p>REMOVE ALL SHARP EDGES</p> <p><small>This document belongs to the ISAAC NEWTON GROUP of TELESCOPES and may not be copied, reproduced or displayed in whole or in part without the express written consent of the ISAAC NEWTON GROUP of TELESCOPES</small></p>	<p>TITLE: Pinhole Mask INGRID F11 foreoptics</p>				<p>ISAAC NEWTON GROUP Apartado de Correos, 321 38780 S/C de La Palma Canary Islands SPAIN Tel: +34 922 425 400</p>			
	MATERIAL: Aluminium Alloy 6082 TF	ORIGINAL SCALE: 1:1	MAIN SYSTEM: INGRID	DWG TYPE: Part	<p>DRAWING NUMBER B0359 SHEET 1 of 1</p>			
	FINISH: Clean	SHEET SIZE: A3	SUB-SYSTEM: Foreoptics	LOCATION: BO				
			ITEM: Part	USED ON: B0355				
		ENG DISCIPLINE: MECHANICAL						

Drawing No:

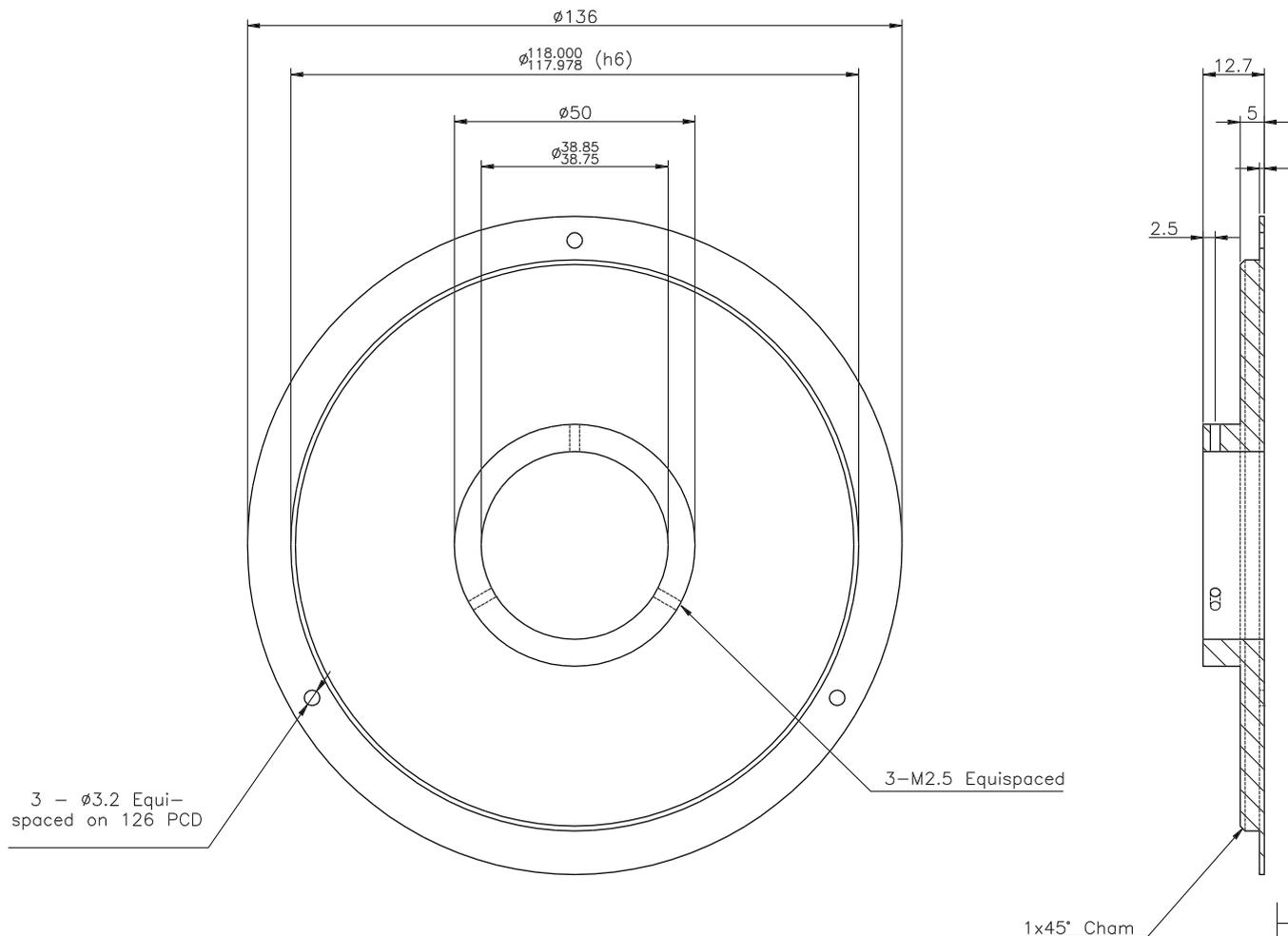
B0360

DO NOT SCALE IF IN DOUBT ASK

THIRD ANGLE

A
B
C
D
E
F

A
B
C
D
E
F



3 - $\varnothing 3.2$ Equi-spaced on 126 PCD

3-M2.5 Equispaced

1x45° Cham

1	PDJ	20/12/99		
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UNLESS OTHERWISE STATED
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 GENERAL TOL: ± 0.1
 ANGULAR TOL: \pm
 SURFACE FINISH (MICRONS) 1.6 ✓
 REMOVE ALL SHARP EDGES

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TITLE: Pin Hole Holder INGRID F11 foreoptics			
MATERIAL: Aluminium Alloy Dural	ORIGINAL SCALE: 1:1	MAIN SYSTEM: INGRID	DWG TYPE: Part
FINISH: Clean	SHEET SIZE: A3	SUB-SYSTEM: Foreoptics	LOCATION: BO
		ITEM: Part	USED ON: B0355
		ENG DISCIPLINE: MECHANICAL	

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DRAWING NUMBER: B0360
 SHEET 1 of 1