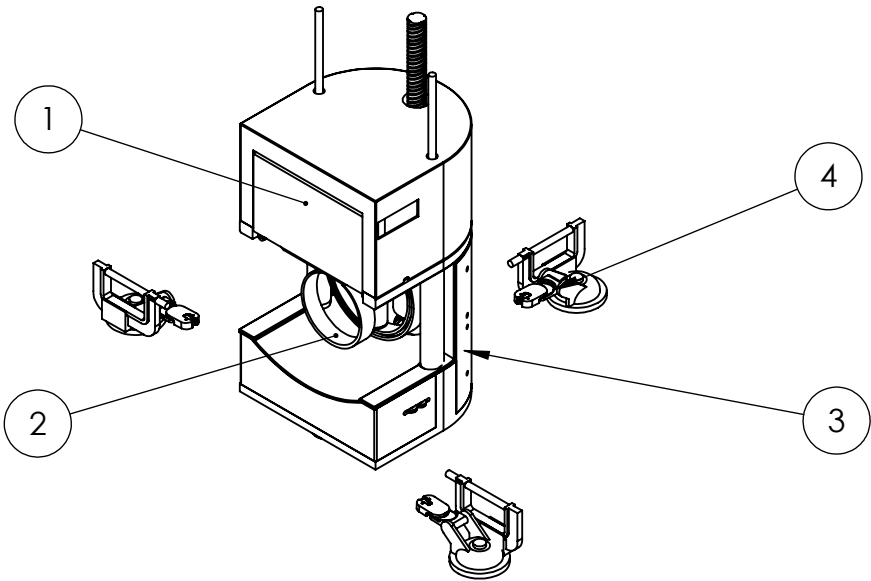


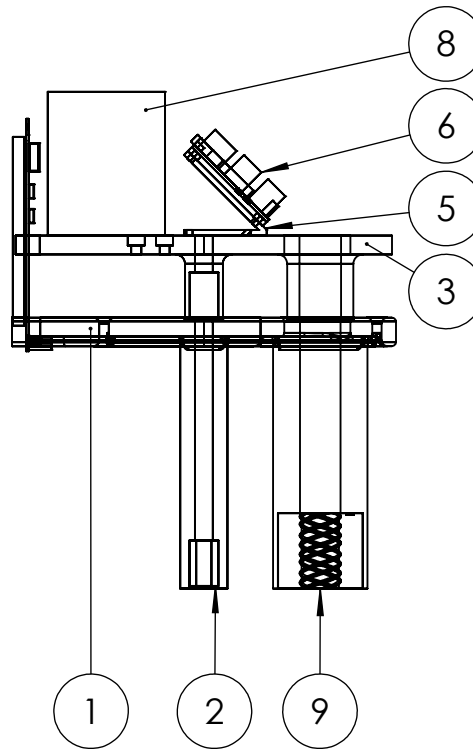
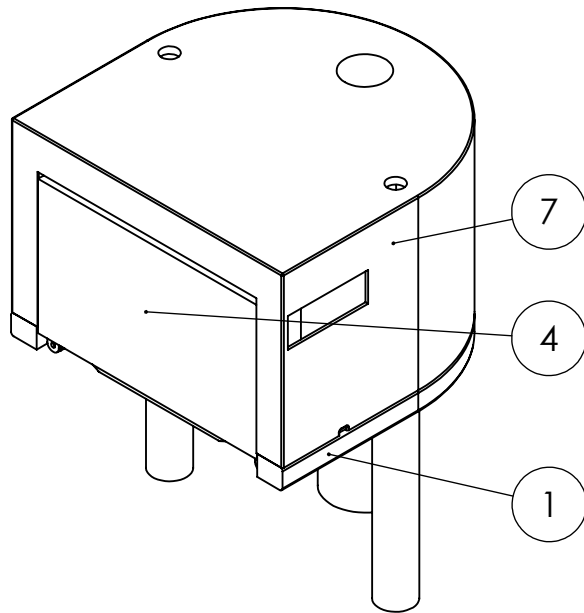
ITEM NO.	PART NUMBER	QTY.
1	Top Assembly	1
2	Handle Assembly	1
3	Lower Section	1
4	Anchor Assembly	3



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			DIMENSIONS ARE IN MILLIMETERS	DRAWN			
			TOLERANCES:	CHECKED			
			FRACTIONAL $\pm$	ENG APPR.			
			ANGULAR: MACH $\pm$ BEND $\pm$	MFG APPR.			
			TWO PLACE DECIMAL $\pm$	Q.A.			
			THREE PLACE DECIMAL $\pm$	COMMENTS:			
		INTERPRET GEOMETRIC TOLERANCING PER:					
		MATERIAL					
		FINISH					
	NEXT ASSY	USED ON					
	APPLICATION		DO NOT SCALE DRAWING				

SIZE	DWG. NO.	REV
<b>A</b>	1	
SCALE: 1:12		WEIGHT:
		SHEET 1 OF 1

B



ITEM NO.	PART NUMBER	QTY.
1	Top Plate Final	1
2	Linear Bearing	2
3	Top Mounting Plate	1
4	Screen	1
5	Pi Mount	1
6	Raspberry Pi	1
7	Full Top Shell	1
8	Battery	1
9	Lead Nut	1

B

A

A

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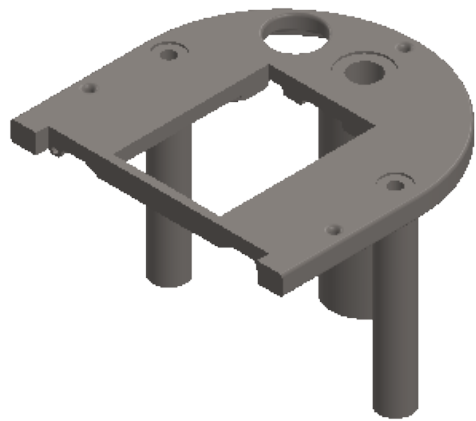
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN MILLIMETERS	DRAWN	JM	11/20/25
		TOLERANCES: NONE	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ±    BEND ±	MFG APPR.		
		TWO PLACE DECIMAL    ±			
		THREE PLACE DECIMAL    ±			
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL	COMMENTS:		
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

TITLE:

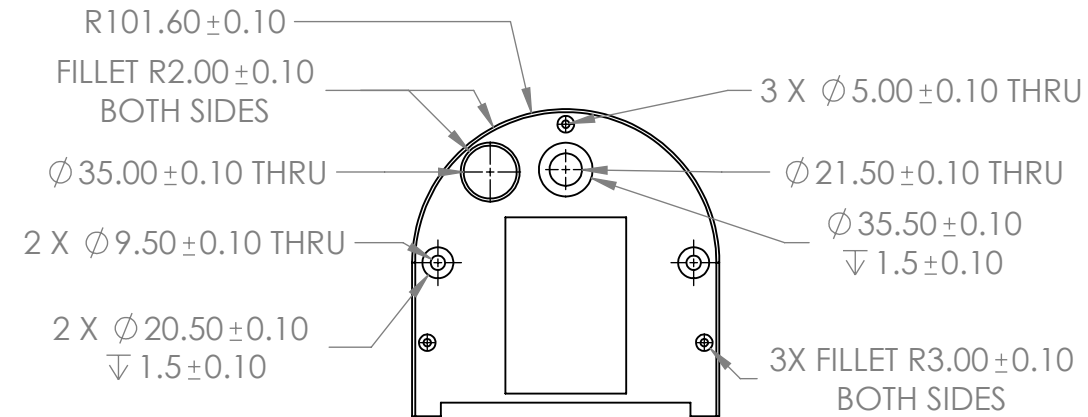
# Flying Squirrel Top Assembly

SIZE	DWG. NO.	REV
<b>A</b>	T-0	
SCALE: 1:4	WEIGHT:	SHEET 1 OF 1

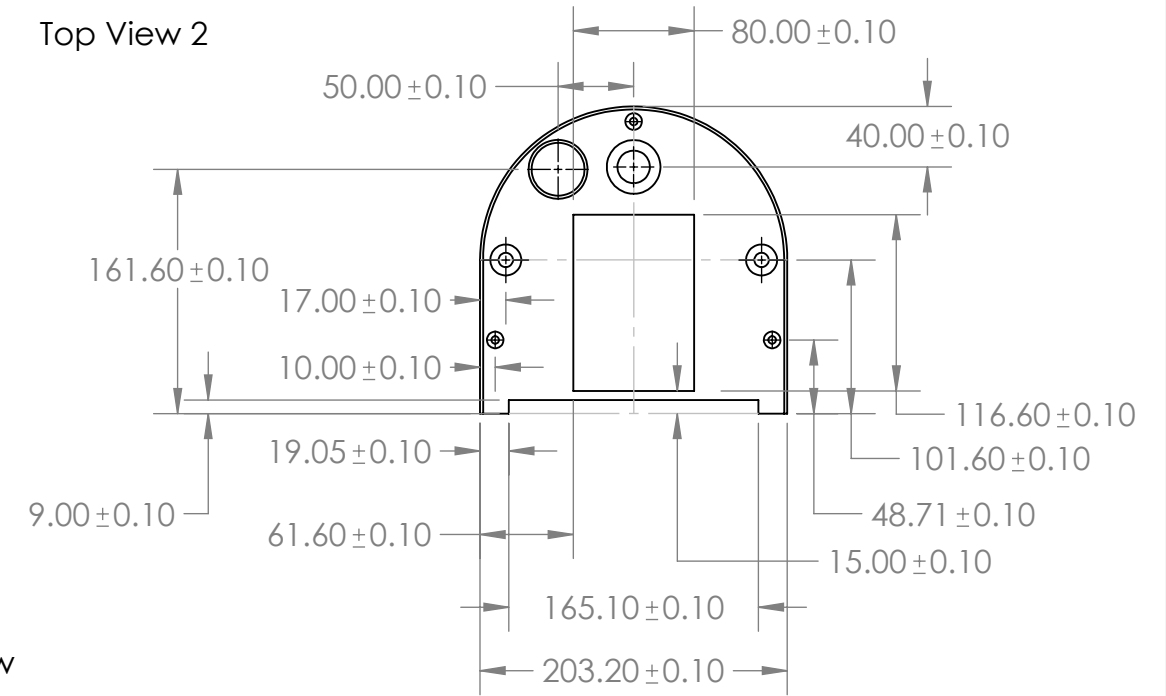
Isometric View



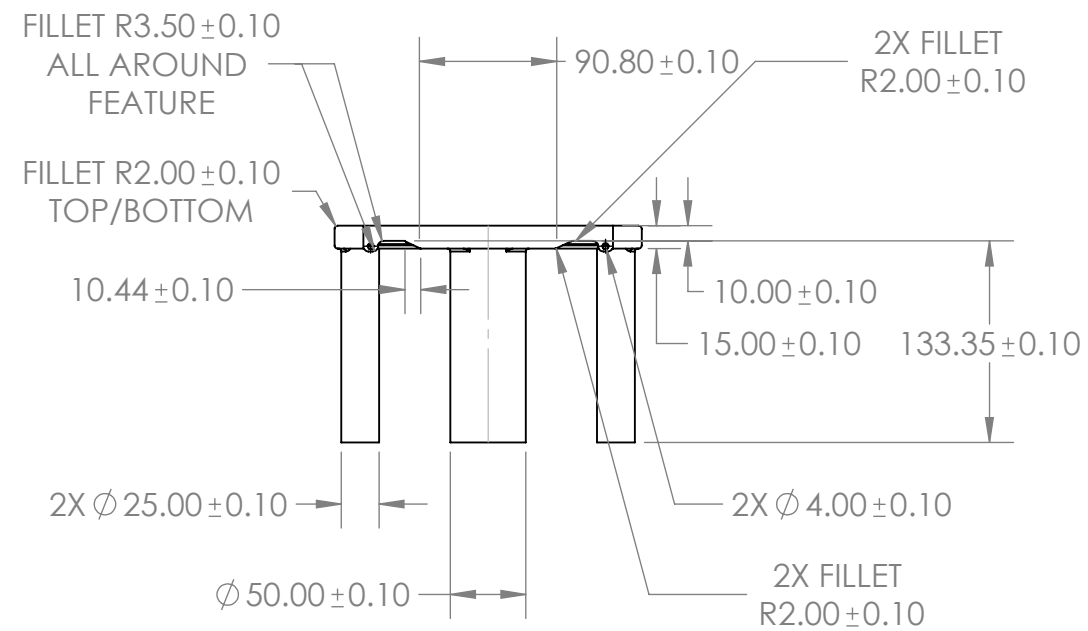
Top View 1



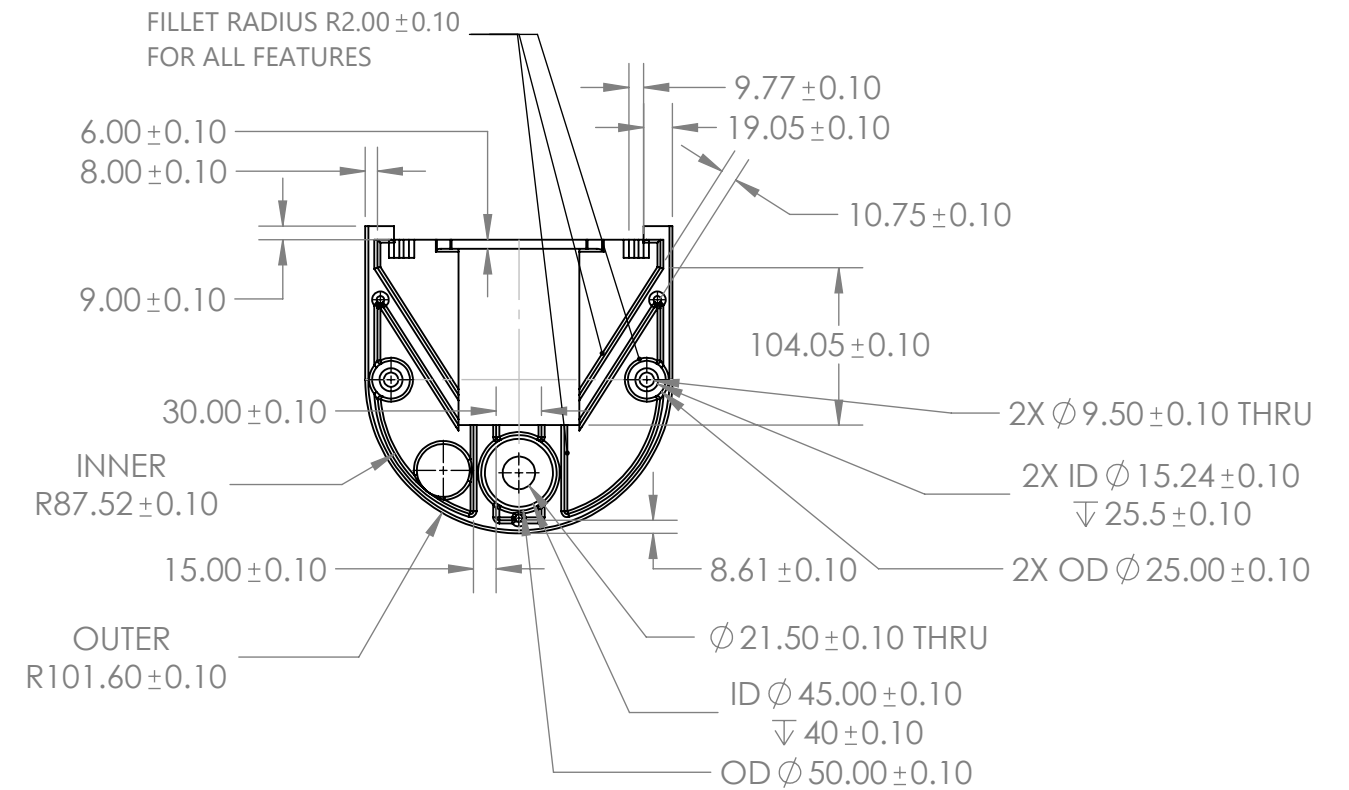
Top View 2



FRONT VIEW



Bottom View



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TOLERANCES: ±0.1  
FRACTIONAL ±  
ANGULAR: MACH ± BEND ±  
TWO PLACE DECIMAL ±  
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC  
TOLERANCING PER:

MATERIAL  
PLA

FINISH  
3D PRINTED

NAME  
JM  
DATE  
11/21/25

DRAWN

CHECKED

ENG APPR.

MFG APPR.

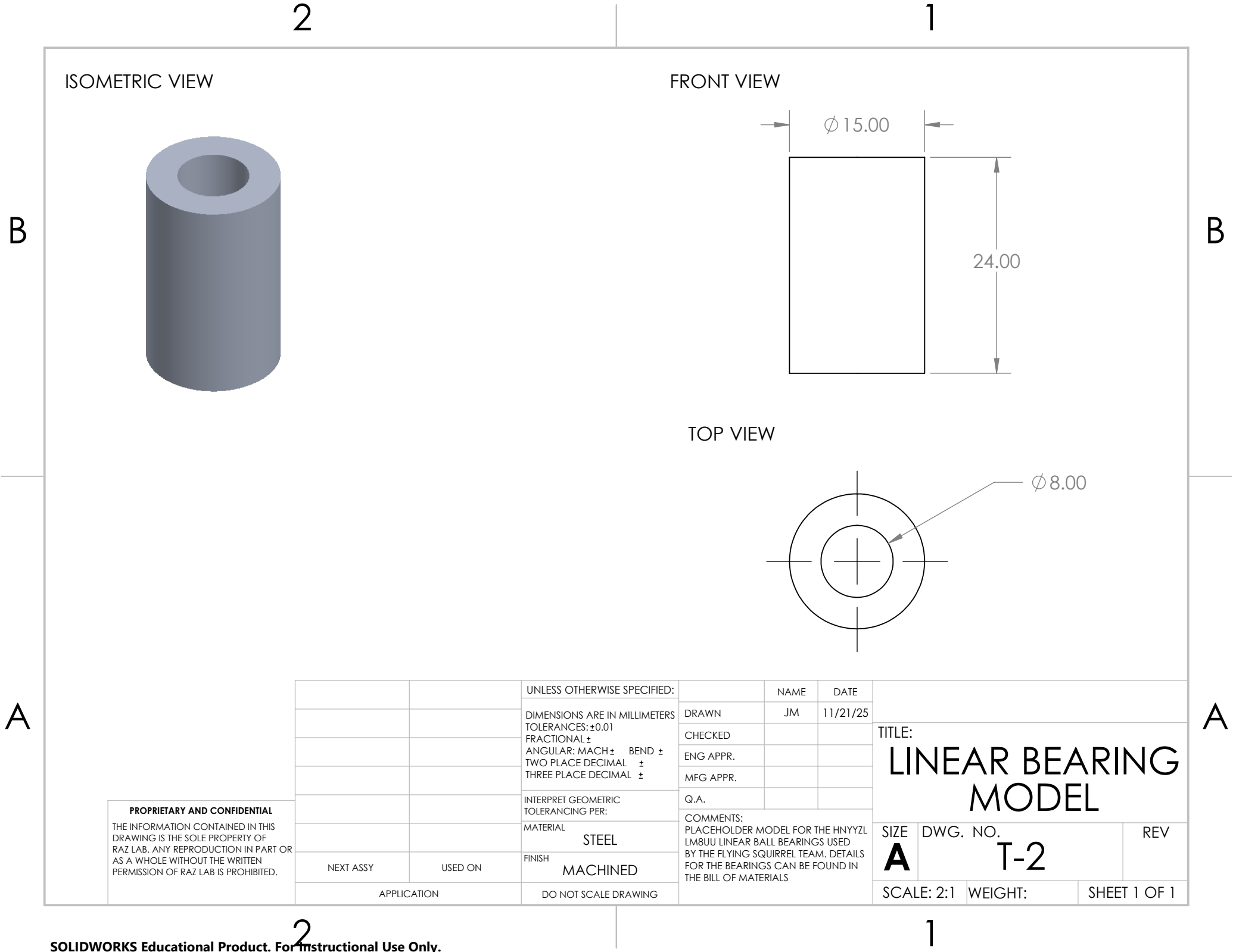
Q.A.

COMMENTS:

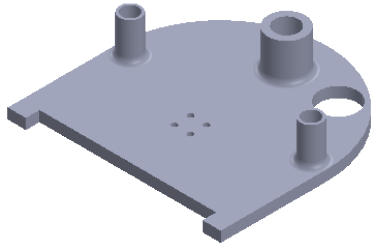
TITLE:  
**FLYING SQUIRREL  
TOP PLATE**

SIZE **B** DWG. NO. **T-1** REV

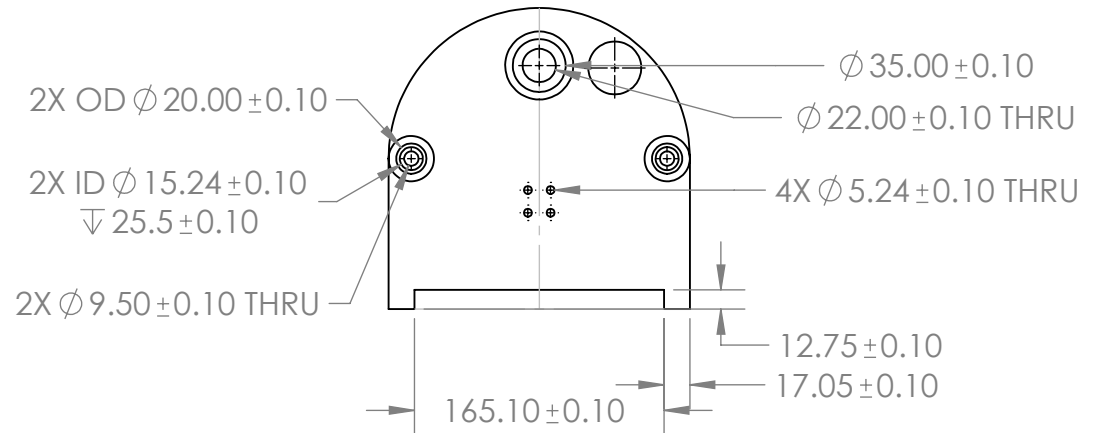
SCALE: 1:5 WEIGHT: SHEET 1 OF 1



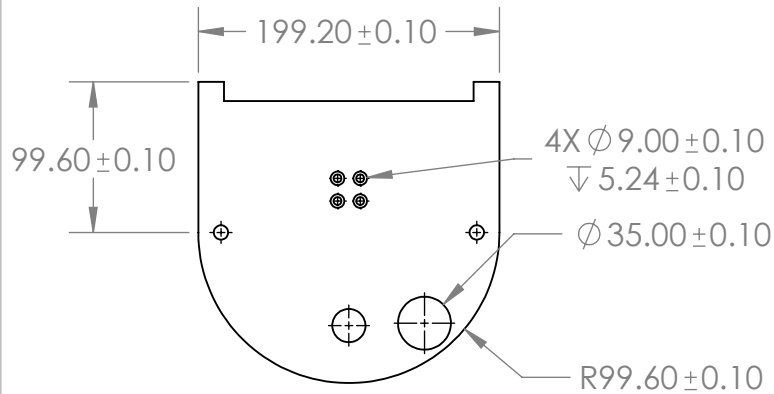
## ISOMETRIC VIEW



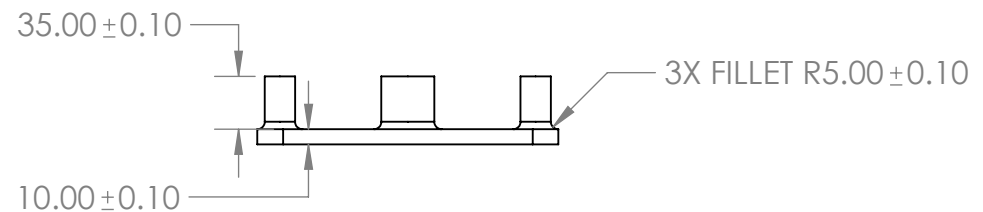
## TOP VIEW



## BOTTOM VIEW



## FRONT VIEW



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NEXT ASSY

USED ON

APPLICATION

## UNLESS OTHERWISE SPECIFIED:

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TOLERANCES:  $\pm 0.10$   
FRACTIONAL  $\pm$   
ANGULAR: MACH  $\pm$  BEND  $\pm$   
TWO PLACE DECIMAL  $\pm$   
THREE PLACE DECIMAL  $\pm$

INTERPRET GEOMETRIC  
TOLERANCING PER:

MATERIAL

PLA

FINISH

3D PRINTED

DO NOT SCALE DRAWING

NAME

DATE

DRAWN

JM

11/21/25

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:

TITLE:

FLYING SQUIRREL TOP  
MOUNTING PLATE

SIZE

A

DWG. NO.

T-3

REV

SCALE: 1:5

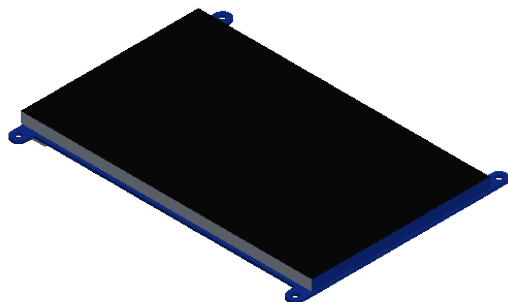
WEIGHT:

SHEET 1 OF 1

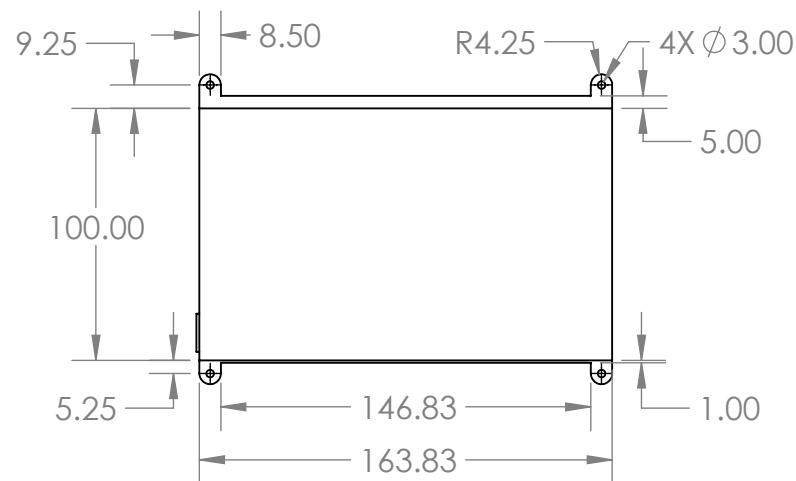
B

B

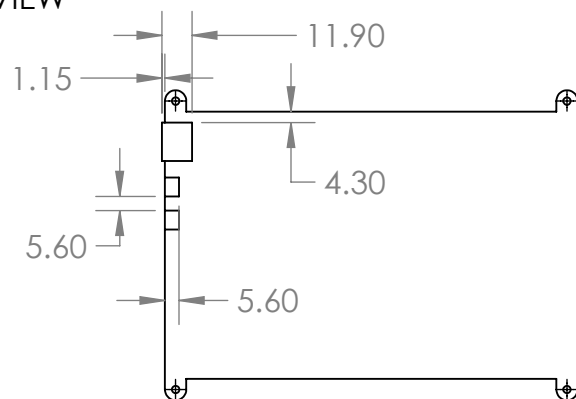
ISOMETRIC VIEW



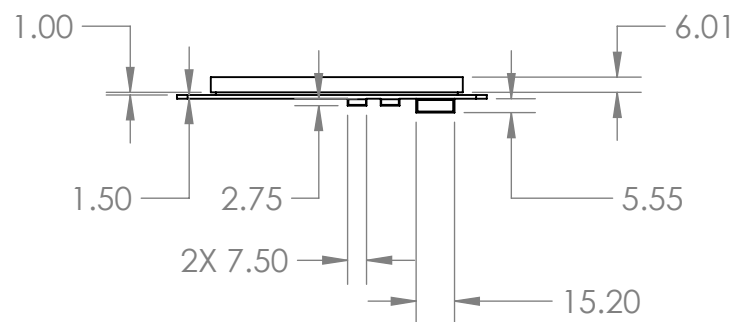
TOP VIEW



BOTTOM VIEW



LEFT VIEW



A

A

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NEXT ASSY

USED ON

APPLICATION

## UNLESS OTHERWISE SPECIFIED:

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TOLERANCES: N/A  
FRACTIONAL  $\pm$   
ANGULAR: MACH  $\pm$  BEND  $\pm$   
TWO PLACE DECIMAL  $\pm$   
THREE PLACE DECIMAL  $\pm$

INTERPRET GEOMETRIC  
TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

NAME

DATE

DRAWN

JM

11/21/25

CHECKED

ENG APPR.

MFG APPR.

Q.A.

## COMMENTS:

THIS IS A PLACEHOLDER MODEL FOR  
THE WAVESHARE 7IN HDMI LCD TOUCH  
SCREEN USED BY THE FLYING SQUIRREL  
TEAM

TITLE:

# TOUCH SCREEN MODEL

SIZE

**A**

DWG. NO.

**T-4**

REV

SCALE: 1:3

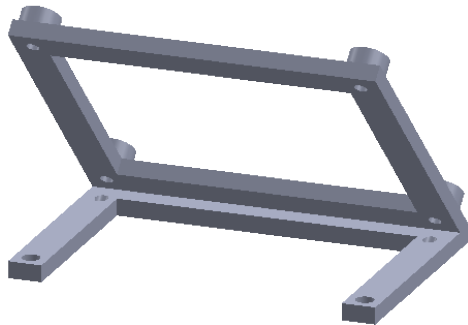
WEIGHT:

SHEET 1 OF 1

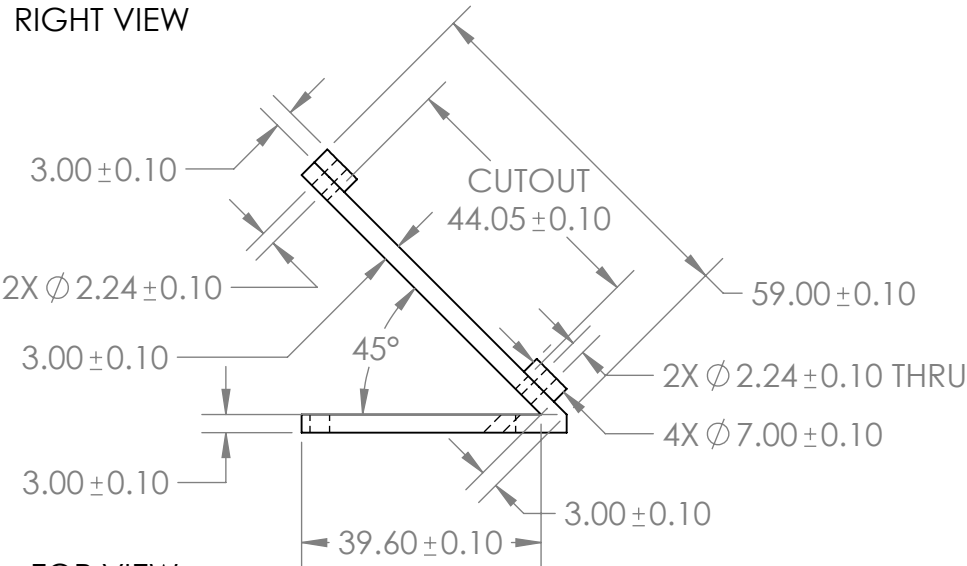
2

1

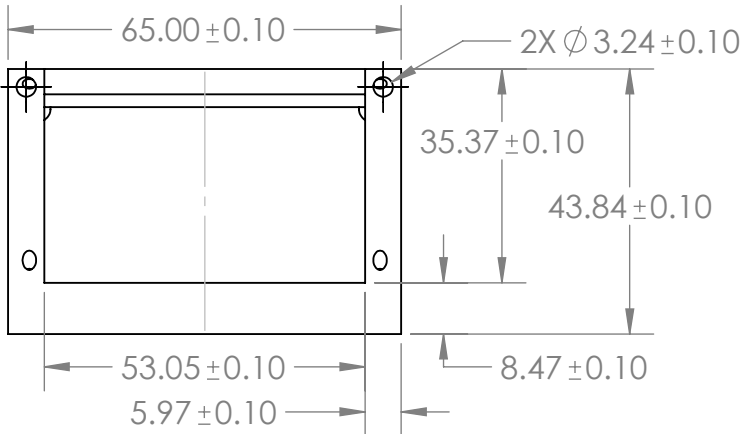
DIMETRIC VIEW



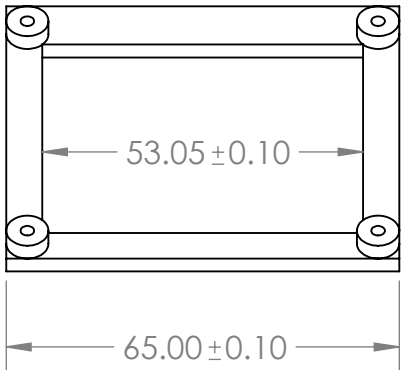
RIGHT VIEW



BOTTOM VIEW



TOP VIEW



A

A

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		DIMENSIONS ARE IN MILLIMETERS	DRAWN	JM	11/21/25
		TOLERANCES: ±0.10	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ± BEND ±	MFG APPR.		
		TWO PLACE DECIMAL ±	Q.A.		
		THREE PLACE DECIMAL ±	COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
		PLA			
		FINISH			
		3D PRINTED			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

TITLE:  
**RASPBERRY PI 45  
DEG. MOUNT**

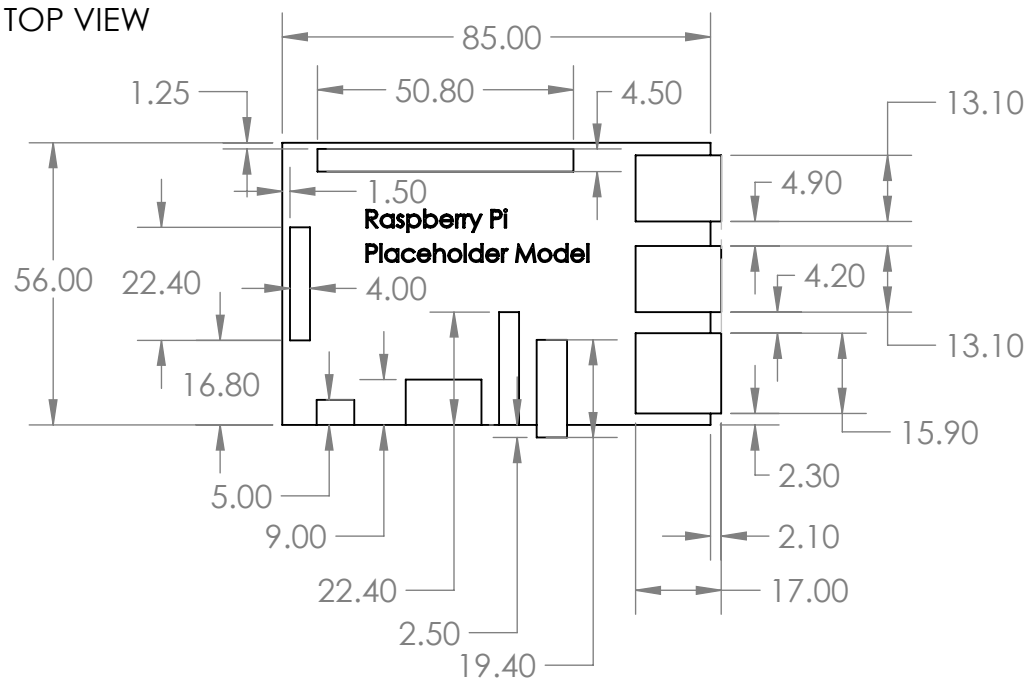
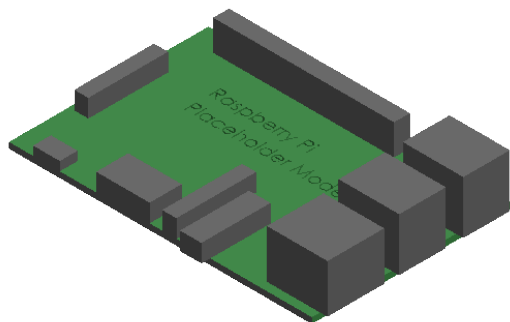
SIZE	DWG. NO.	REV
<b>A</b>	<b>T-5</b>	
SCALE: 1:1.25		WEIGHT:
		SHEET 1 OF 1

2

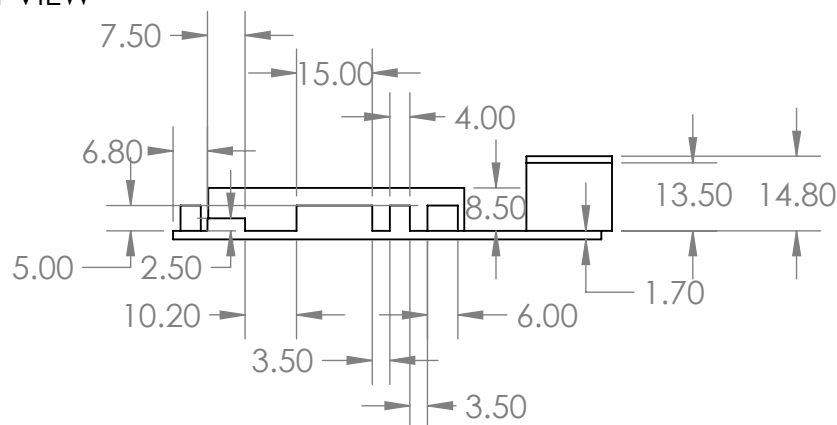
1

1

TOP VIEW



FRONT VIEW



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USED ON

## APPLICATION

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MILLIMETERS  
TOLERANCES: N/A  
FRACTIONAL ±  
ANGULAR: MACH ± BEND ±  
TWO PLACE DECIMAL ±  
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC  
TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

DATE \_\_\_\_\_

DRAWN

JM

11/21/25

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:  
THIS IS THE PLACEHOLDER MODEL FOR  
THE RASPBERRY PI 5 BOARD USED BY THE  
FLYING SQUIRREL TEAM.

TITLE:	
--------	--

# RASPBERRY PI MODEL

SIZE	PRICE	STOCK
Small	10	10
Medium	15	15
Large	20	20

DWG. NO.	
----------	--

**A**

T-6

REV

SCALE: 1:1.5 WEIGHT:

SHEET 1 OF 1

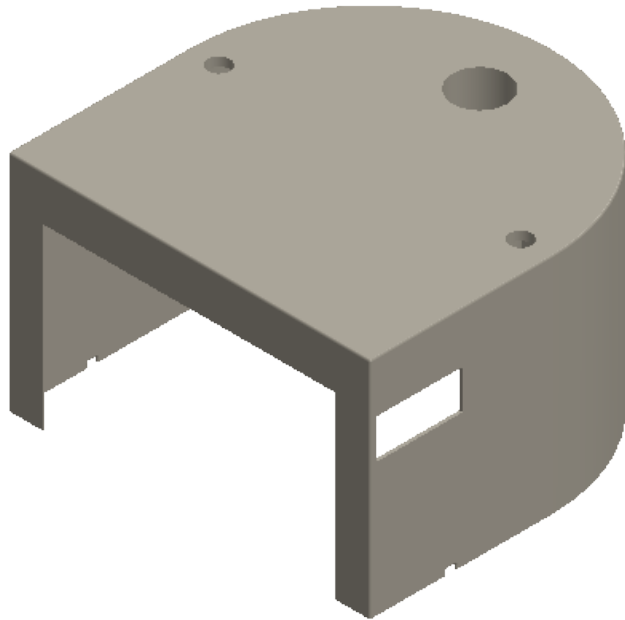
**SOLIDWORKS Educational Product. For Instructional Use Only.**

2

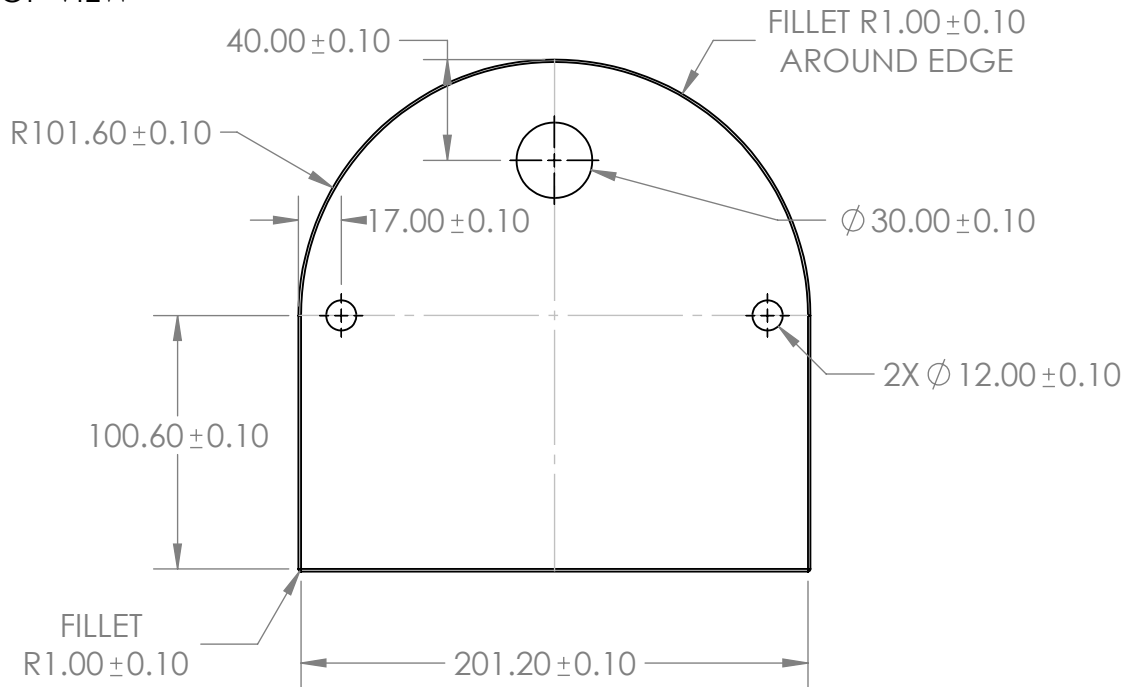
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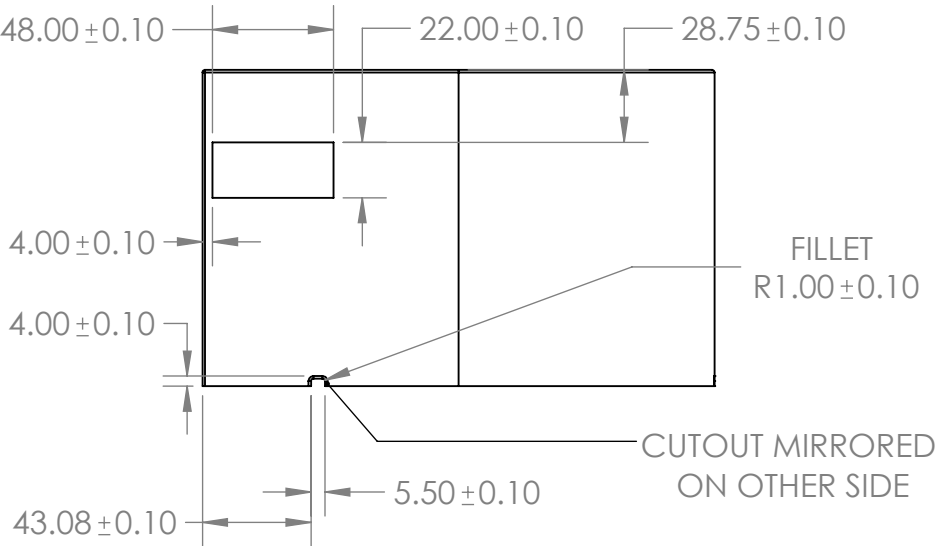
ISOMETRIC VIEW



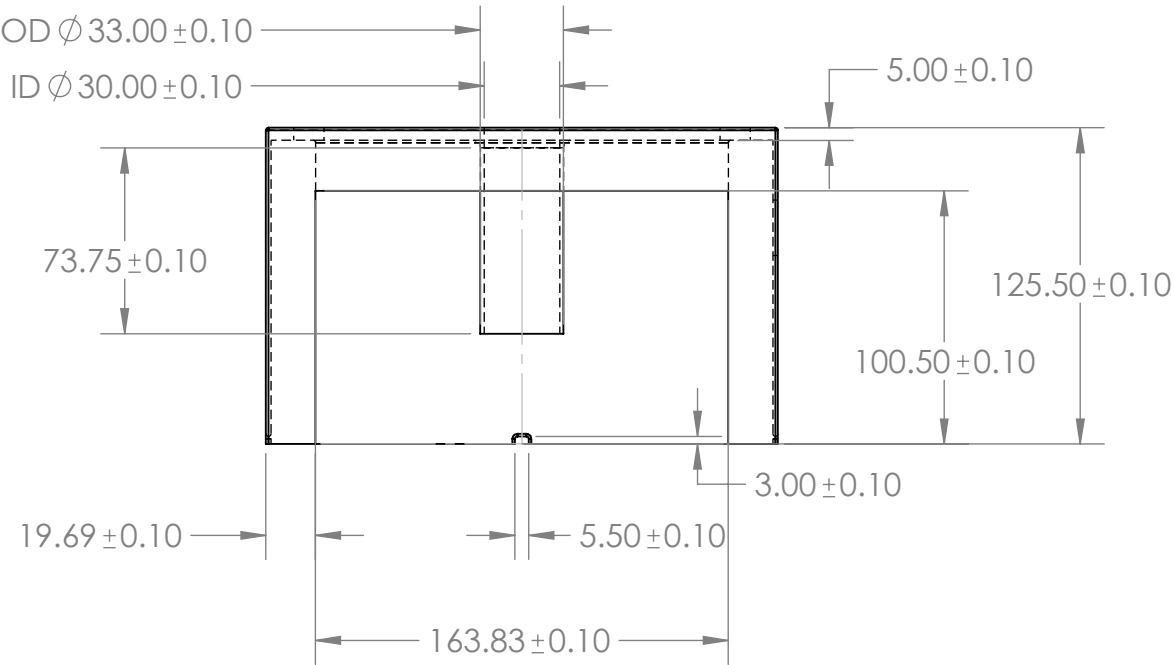
TOP VIEW



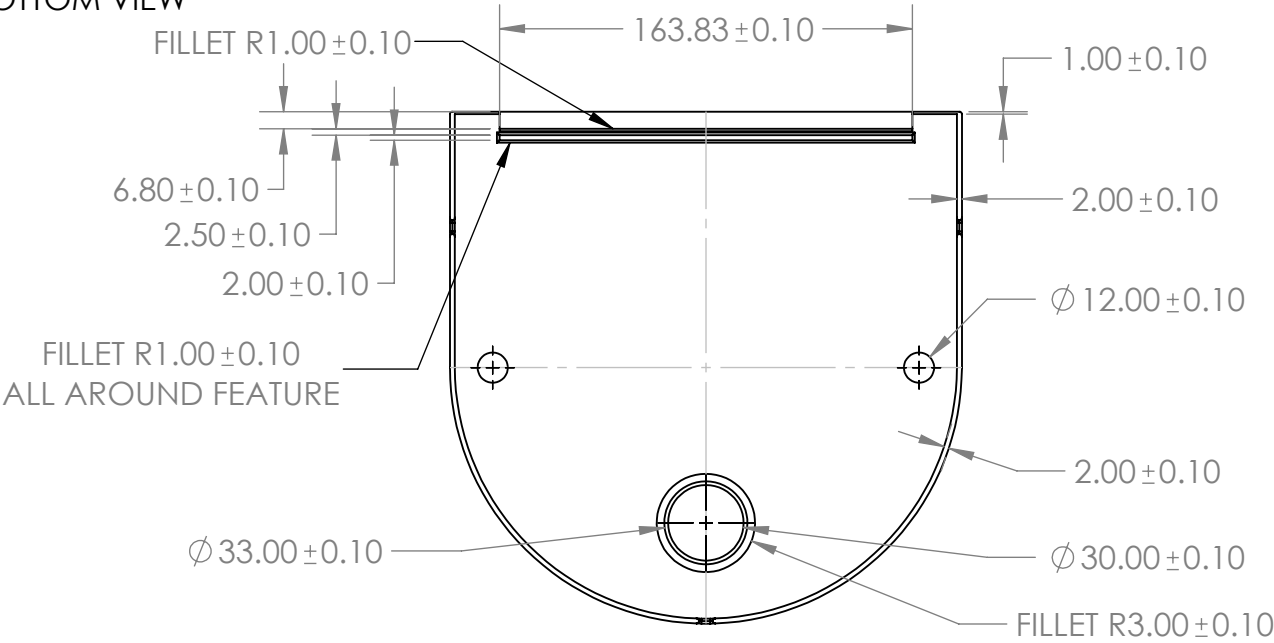
RIGHT VIEW



FRONT VIEW



BOTTOM VIEW



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TOLERANCES:  $\pm 0.10$   
FRACTIONAL  $\pm$   
ANGULAR: MACH  $\pm$  BEND  $\pm$   
TWO PLACE DECIMAL  $\pm$   
THREE PLACE DECIMAL  $\pm$

INTERPRET GEOMETRIC  
TOLERANCING PER:

MATERIAL  
PLA

FINISH  
3D PRINTED

DO NOT SCALE DRAWING

NAME

JM

DATE

11/21/25

DRAWN

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:

TITLE:

FLYING SQUIRREL  
TOP SHELL

SIZE

B

DWG. NO.

T-7

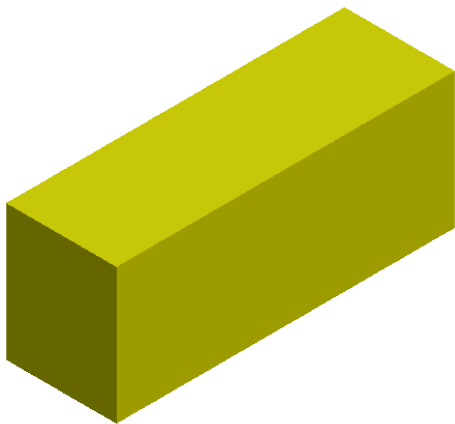
REV

SCALE: 1:3

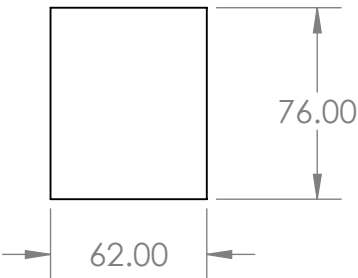
WEIGHT:

SHEET 1 OF 1

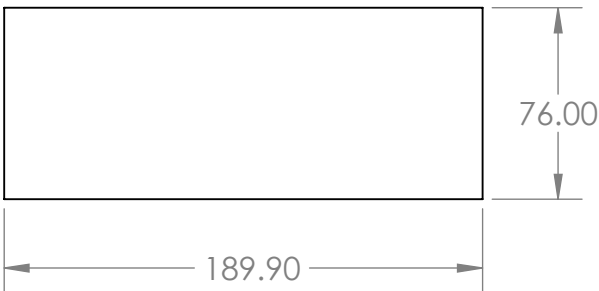
ISOMETRIC VIEW



FRONT VIEW



RIGHT VIEW



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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: <div>BATTERY MODEL</div>		
		DIMENSIONS ARE IN MILLIMETERS	DRAWN	JM	11/21/25			
		TOLERANCES: N/A	CHECKED					
		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ±    BEND ±	MFG APPR.					
		TWO PLACE DECIMAL    ±				SIZE    DWG. NO.    REV <div>A    </div>		

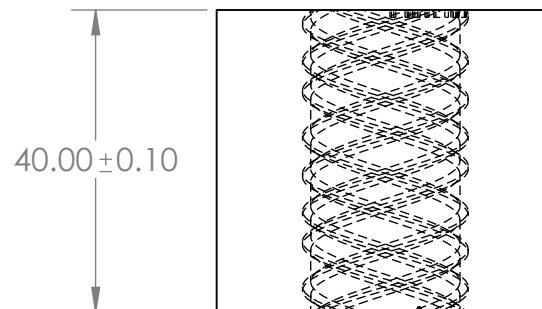
B

B

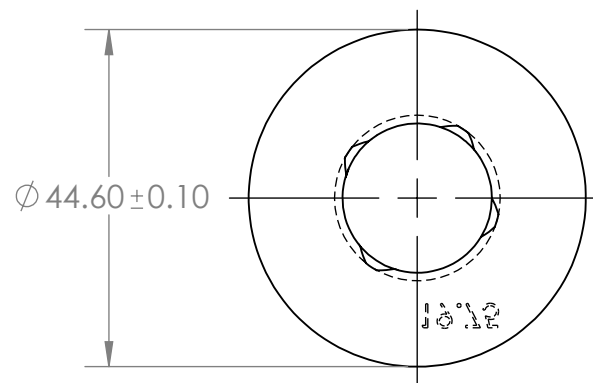
ISOMETRIC VIEW



FRONT VIEW



TOP VIEW



LEAD NUT SPECS:

- 20mm ID
- 20mm PITCH
- 4 START
- 0.10 mm TOLERANCE

A

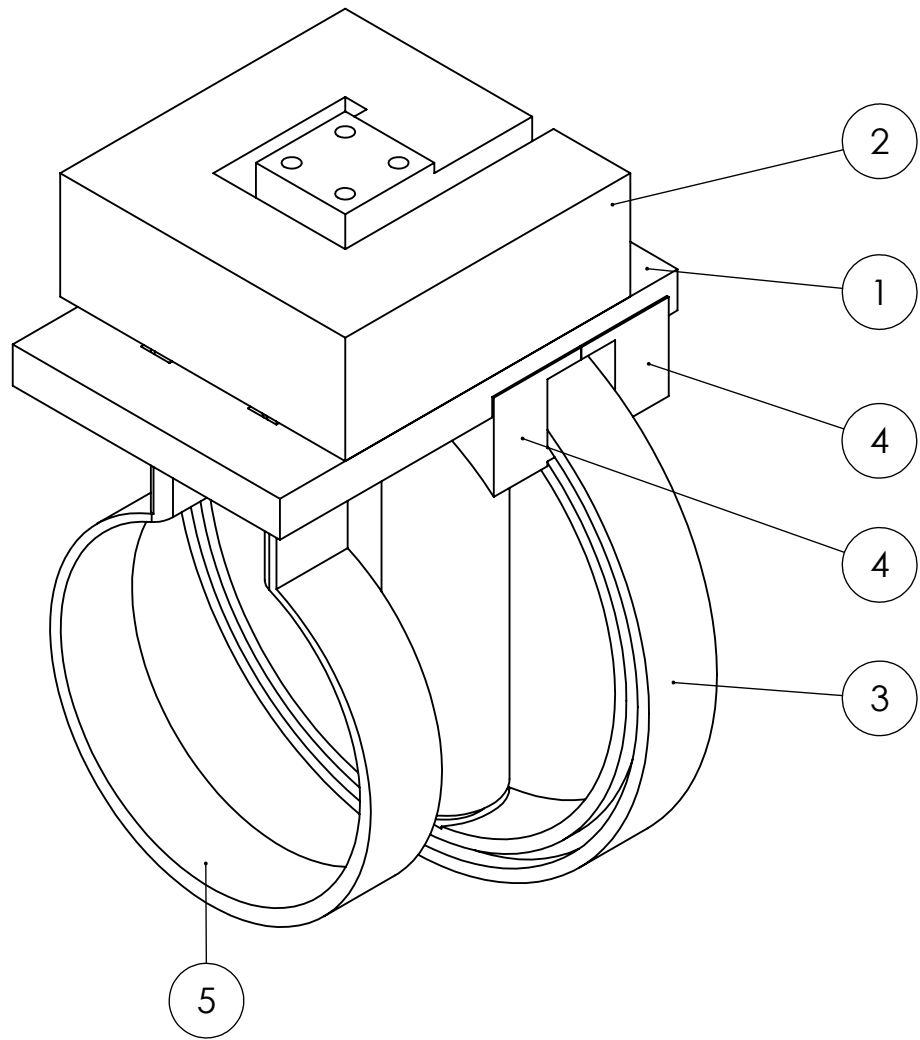
A

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		DIMENSIONS ARE IN MILLIMETERS	DRAWN	JM	11/21/25			
		TOLERANCES: ±0.10	CHECKED					
		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±	Q.A.			SIZE	DWG. NO.	REV
		THREE PLACE DECIMAL ±	COMMENTS:			<b>A</b>	<b>T-9</b>	
		INTERPRET GEOMETRIC TOLERANCING PER:				SCALE: 1:1	WEIGHT:	SHEET 1 OF 1
		MATERIAL						
		PLA						
		FINISH						
		3D PRINTED						
NEXT ASSY	USED ON	APPLICATION	DO NOT SCALE DRAWING					

B

A



ITEM NO.	PART NUMBER	QTY.
1	Handle Plate	1
2	Load Cell	1
3	Handle	1
4	Handle Mount	2
5	Wrist Strap	1

B

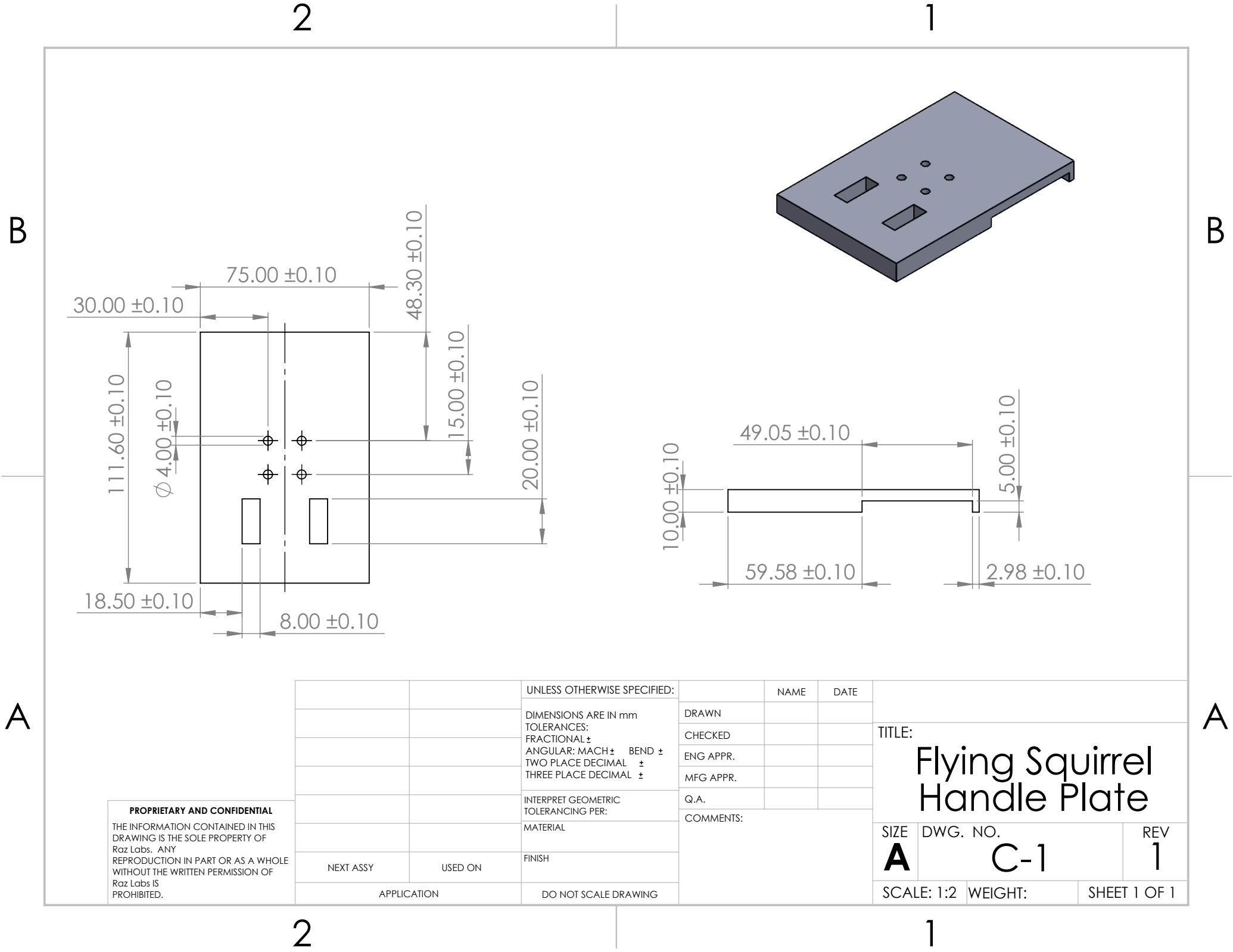
A

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		DIMENSIONS ARE IN MILLIMETERS	DRAWN	JM	11/20/25
		TOLERANCES: NONE	CHECKED		
		FRACTIONAL $\pm$	ENG APPR.		
		ANGULAR: MACH $\pm$ BEND $\pm$	MFG APPR.		
		TWO PLACE DECIMAL $\pm$	Q.A.		
		THREE PLACE DECIMAL $\pm$	COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:  
**Flying Squirrel  
Handle Assembly**

SIZE	DWG. NO.	REV
<b>A</b>	<b>2</b>	
SCALE: 1:1.5	WEIGHT:	SHEET 1 OF 1



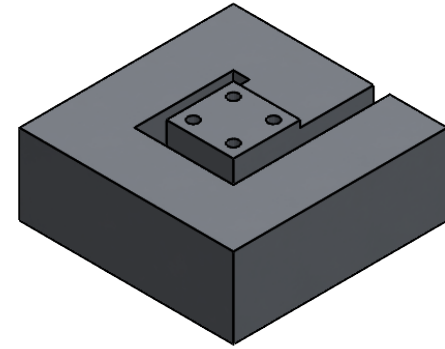
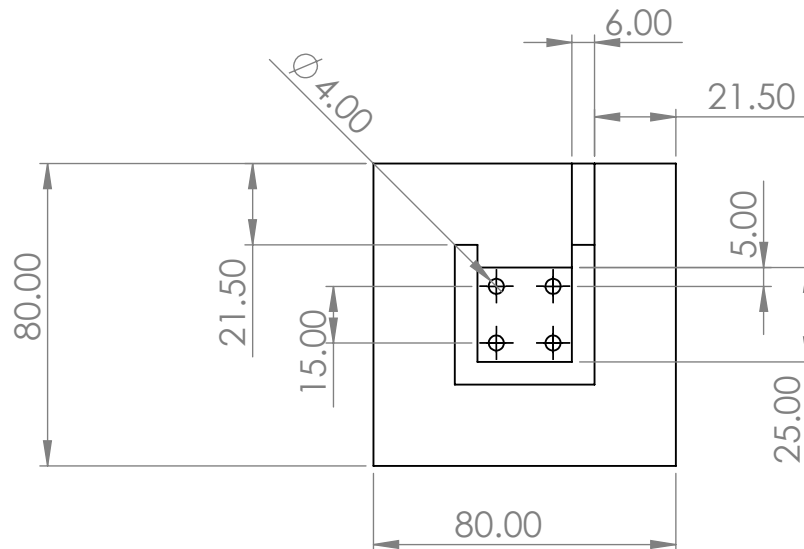
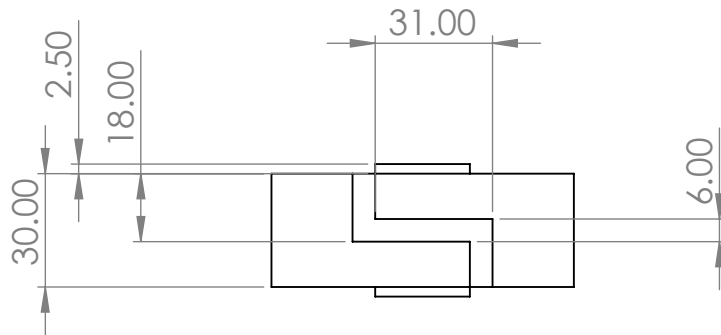
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		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN mm
		TOLERANCES:
		FRACTIONAL ±
		ANGULAR: MACH ± BEND ±
		TWO PLACE DECIMAL ±
		THREE PLACE DECIMAL ±
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

TITLE:		
Flying Squirrel Handle Plate		
SIZE	DWG. NO.	REV
A	C-1	1
SCALE: 1:2	WEIGHT:	SHEET 1 OF 1

B



B

A

A

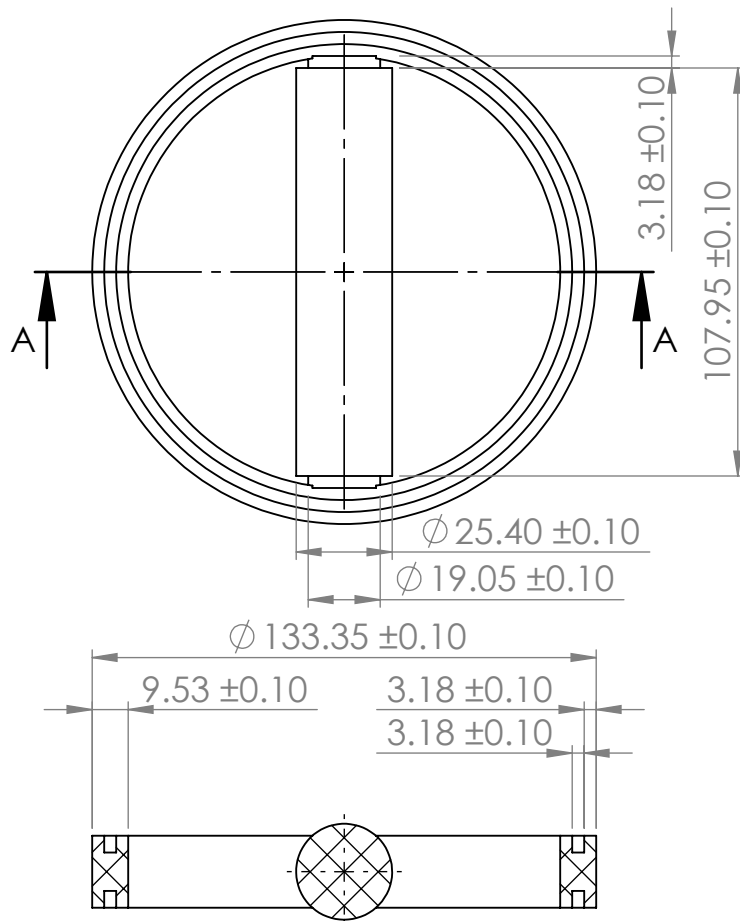
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PROHIBITED.

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: <div>Flying Squirrel Load Cell</div>		
		DIMENSIONS ARE IN mm	DRAWN					
		TOLERANCES: FRACTIONAL ±	CHECKED					
		ANGULAR: MACH±    BEND ±	ENG APPR.					
		TWO PLACE DECIMAL    ±	MFG APPR.					
		THREE PLACE DECIMAL    ±	Q.A.			SIZE    DWG. NO.    REV <div>A                    C-2                    1</div>		
		INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS: This model is a stand-in for the HTC TAS3Z load cell					
		MATERIAL						
		FINISH						
NEXT ASSY	USED ON					SCALE: 1:2    WEIGHT:    SHEET 1 OF 1		
APPLICATION		DO NOT SCALE DRAWING						

2

1

B



SECTION A-A



B

A

A

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: <b>Flying Squirrel Handle</b>		
		DIMENSIONS ARE IN mm	DRAWN					
		TOLERANCES:	CHECKED					
		FRACTIONAL $\pm$	ENG APPR.					
		ANGULAR: MACH $\pm$ BEND $\pm$	MFG APPR.					
		TWO PLACE DECIMAL $\pm$	Q.A.			SIZE	DWG. NO.	REV
		THREE PLACE DECIMAL $\pm$	COMMENTS:			<b>A</b>	<b>C-3</b>	<b>1</b>
		INTERPRET GEOMETRIC TOLERANCING PER:				SCALE: 1:2	WEIGHT:	SHEET 1 OF 1
		MATERIAL						
		FINISH						
	NEXT ASSY	USED ON						
	APPLICATION		DO NOT SCALE DRAWING					

2

1

B

B

A

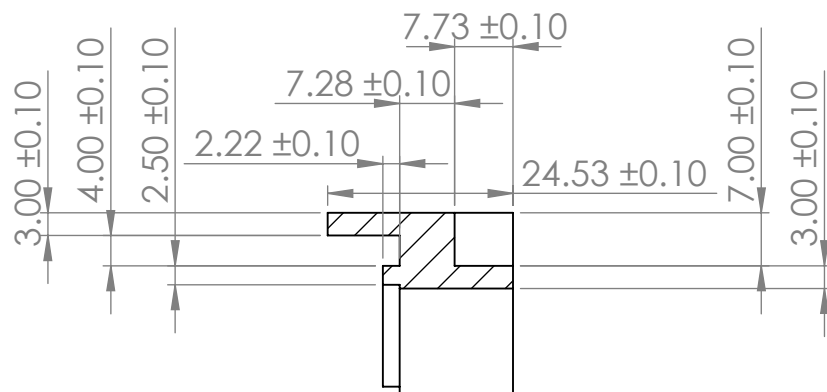
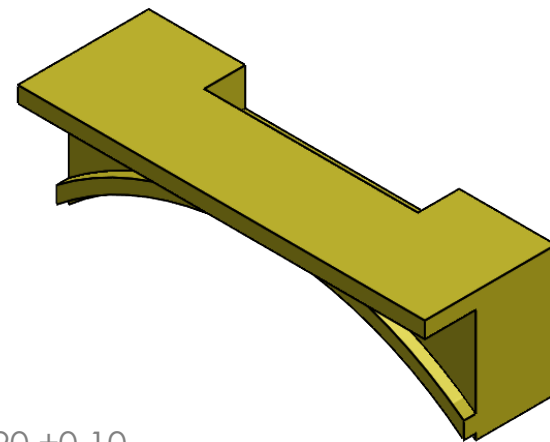
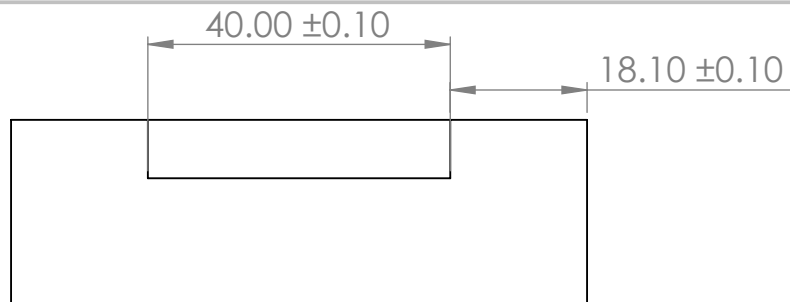
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2

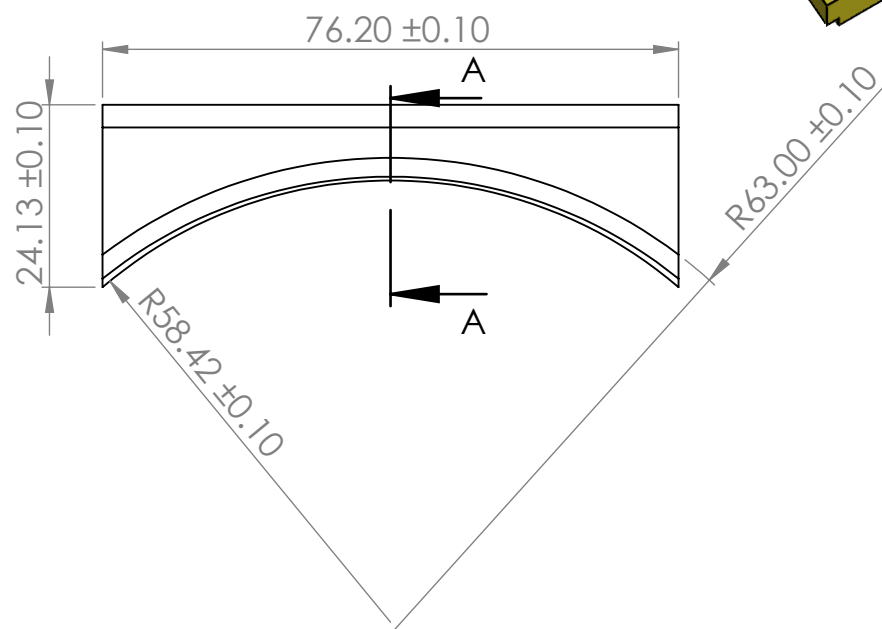
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2

1



SECTION A-A



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		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN mm
		TOLERANCES:
		FRACTIONAL ±
		ANGULAR: MACH ± BEND ±
		TWO PLACE DECIMAL ±
		THREE PLACE DECIMAL ±
		INTERPRET GEOMETRIC
		TOLERANCING PER:
		MATERIAL
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

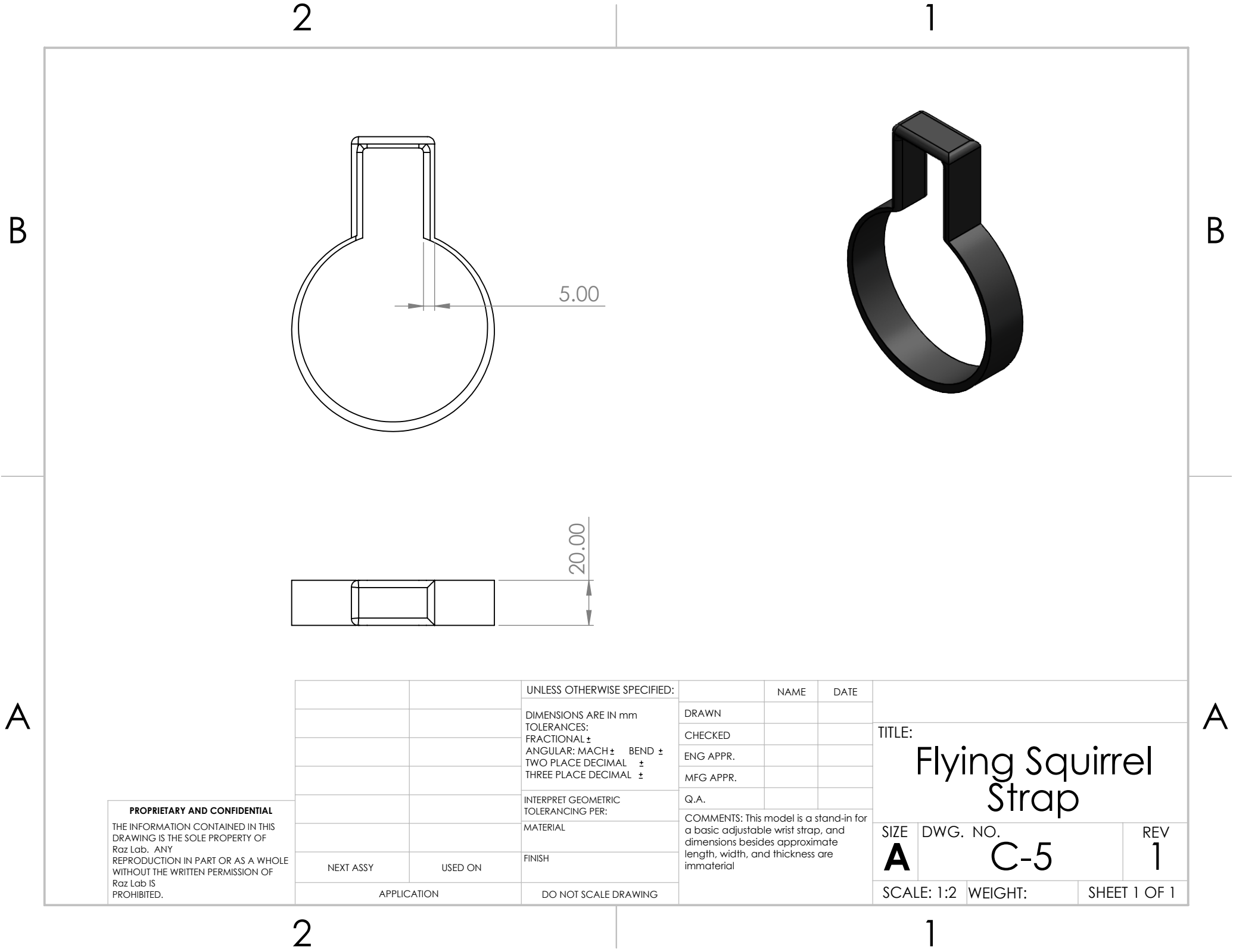
	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

TITLE:

# Flying Squirrel Handle Mount

SIZE	DWG. NO.	REV
<b>A</b>	<b>C-4</b>	<b>1</b>
SCALE: 1:1	WEIGHT:	SHEET 1 OF 1





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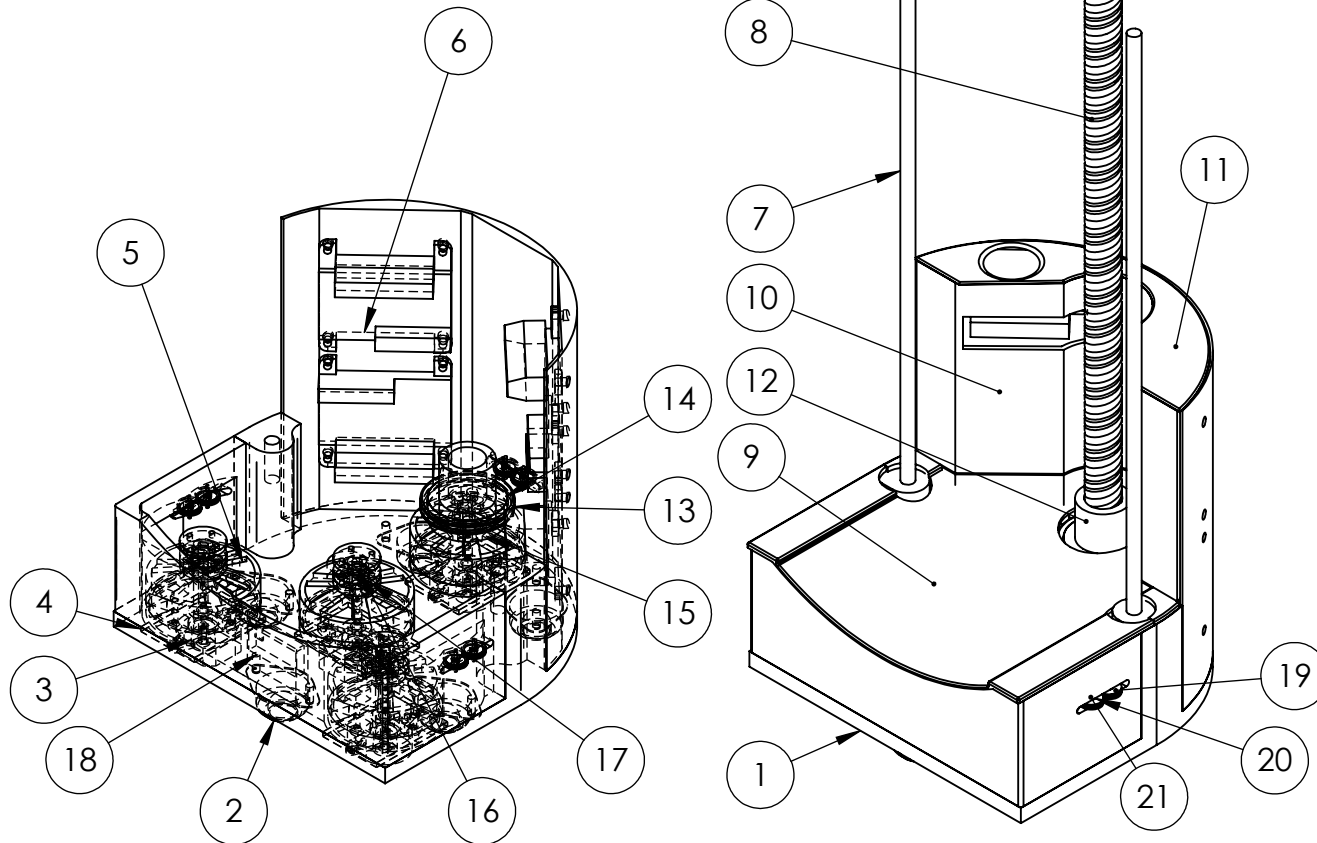
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: <div>Flying Squirrel Strap</div>		
		DIMENSIONS ARE IN mm	DRAWN					
		TOLERANCES:	CHECKED					
		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ±    BEND ±	MFG APPR.					
		TWO PLACE DECIMAL    ±	Q.A.			SIZE	DWG. NO.	REV
		THREE PLACE DECIMAL    ±	COMMENTS: This model is a stand-in for a basic adjustable wrist strap, and dimensions besides approximate length, width, and thickness are immaterial			<b>A</b>	<b>C-5</b>	<b>1</b>
		INTERPRET GEOMETRIC TOLERANCING PER:						
		MATERIAL						
NEXT ASSY	USED ON	FINISH				SCALE: 1:2	WEIGHT:	SHEET 1 OF 1
APPLICATION		DO NOT SCALE DRAWING						

B

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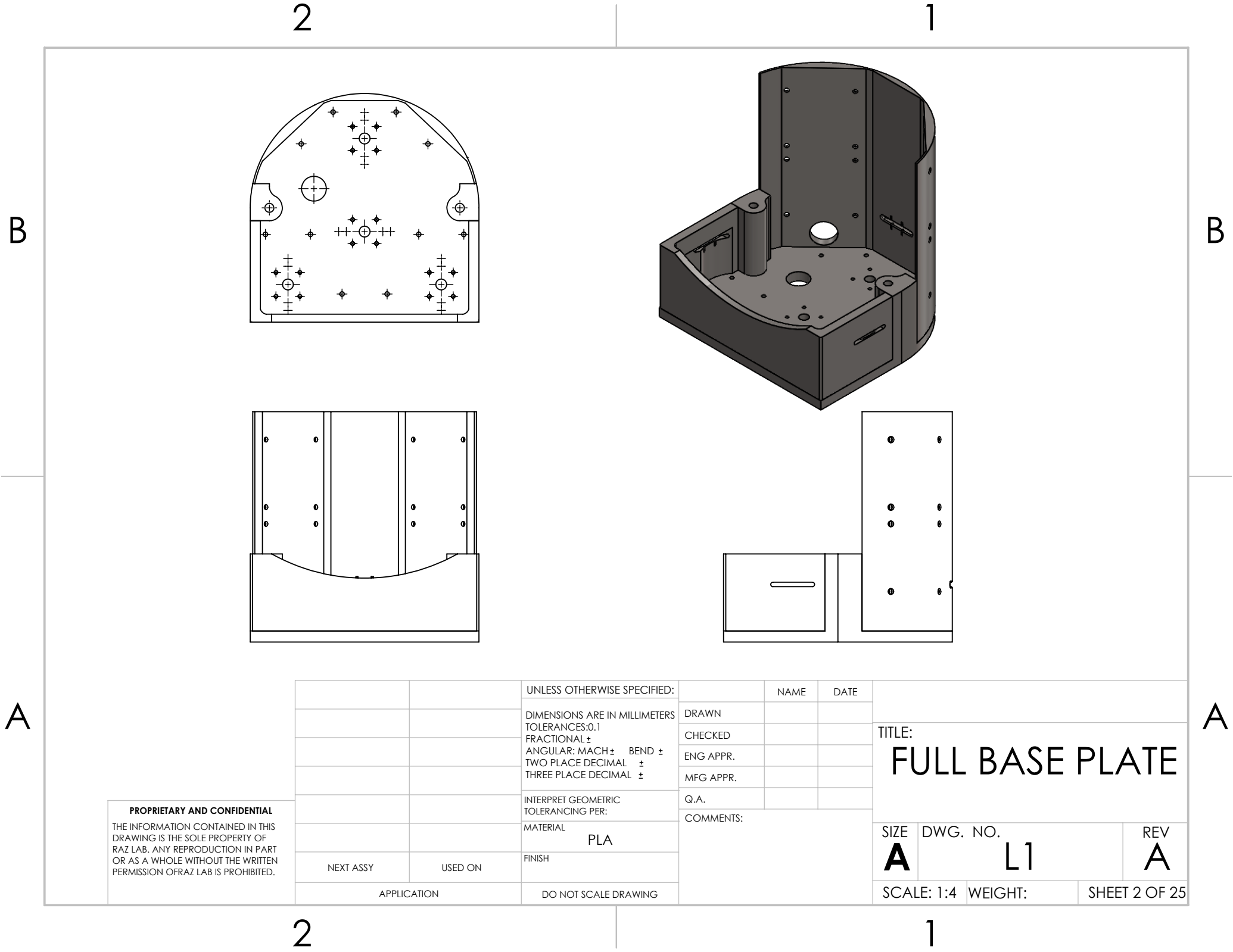


ITEM NO.	PART NUMBER	QTY.
1	Full Base Plate	1
2	Roller/Caster	5
3	Encoder	4
4	Encoder Bracket	4
5	Motor	4
6	Motor Driver	4
7	Support Bar	2
8	Lead Screw	1
9	Lower Cover	1
10	Motor Driver Cover	1
11	Rear Wall Lid	1
12	Coupler	1
13	Coupler Pulley	1
14	Coupler Bearing	1
15	Coupler Spacer	1
16	Cable Pulley	3
17	Cable Pulley Mount	3
18	Teensy	1
19	Guide Pulley	6
20	Guide Pulley Bearing	6
21	Guide Pulley Shaft	6

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN MILLIMETERS	DRAWN		
		TOLERANCES:	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ±    BEND ±	MFG APPR.		
		TWO PLACE DECIMAL ±	Q.A.		
		THREE PLACE DECIMAL ±	COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:		
Flying Squirrel Lower Assembly		
SIZE	DWG. NO.	REV
A	L0	
SCALE: 1:4	WEIGHT:	SHEET 1 OF 25



B

B

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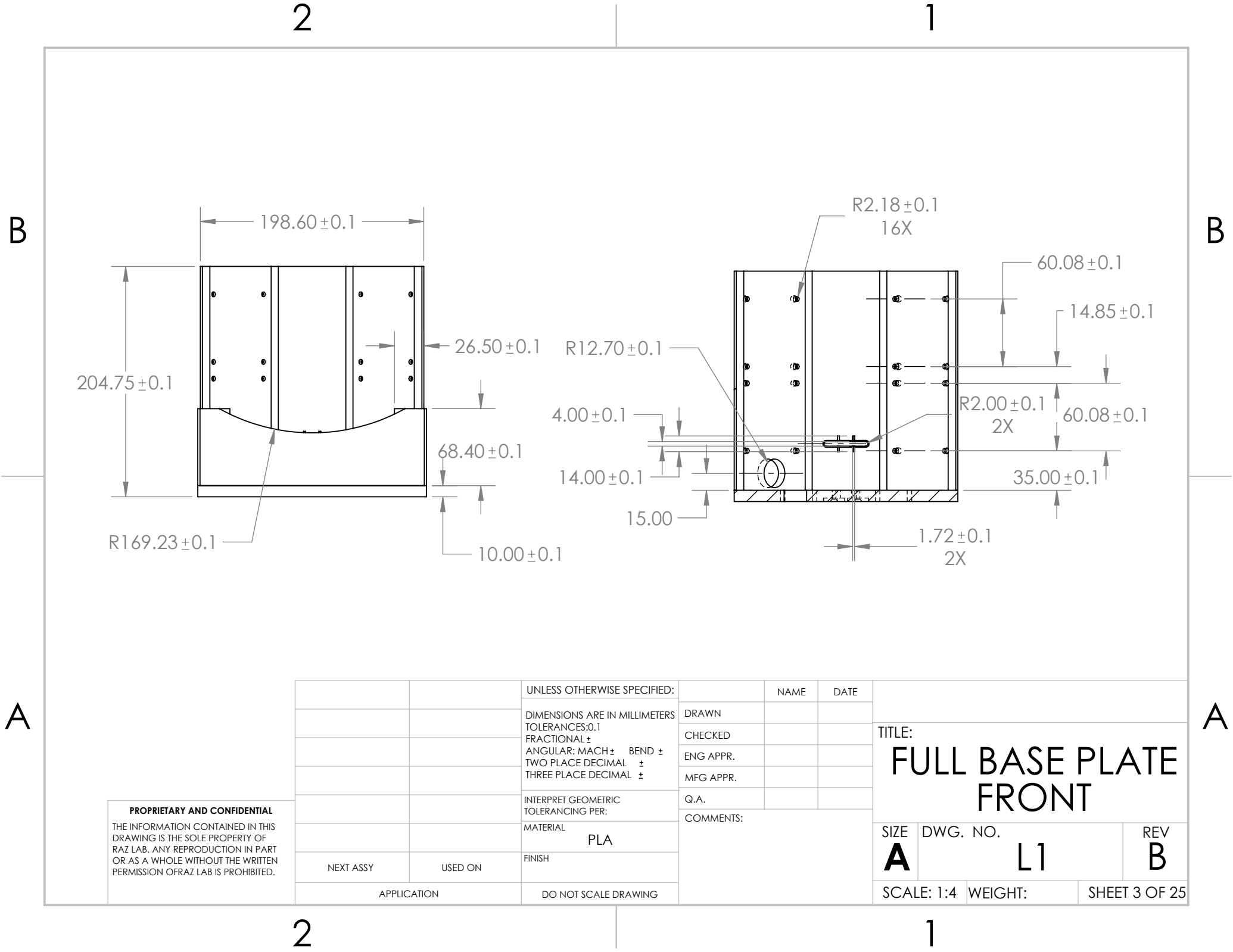
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		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN MILLIMETERS
		TOLERANCES: 0.1
		FRACTIONAL ±
		ANGULAR: MACH ± BEND ±
		TWO PLACE DECIMAL ±
		THREE PLACE DECIMAL ±
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL PLA
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

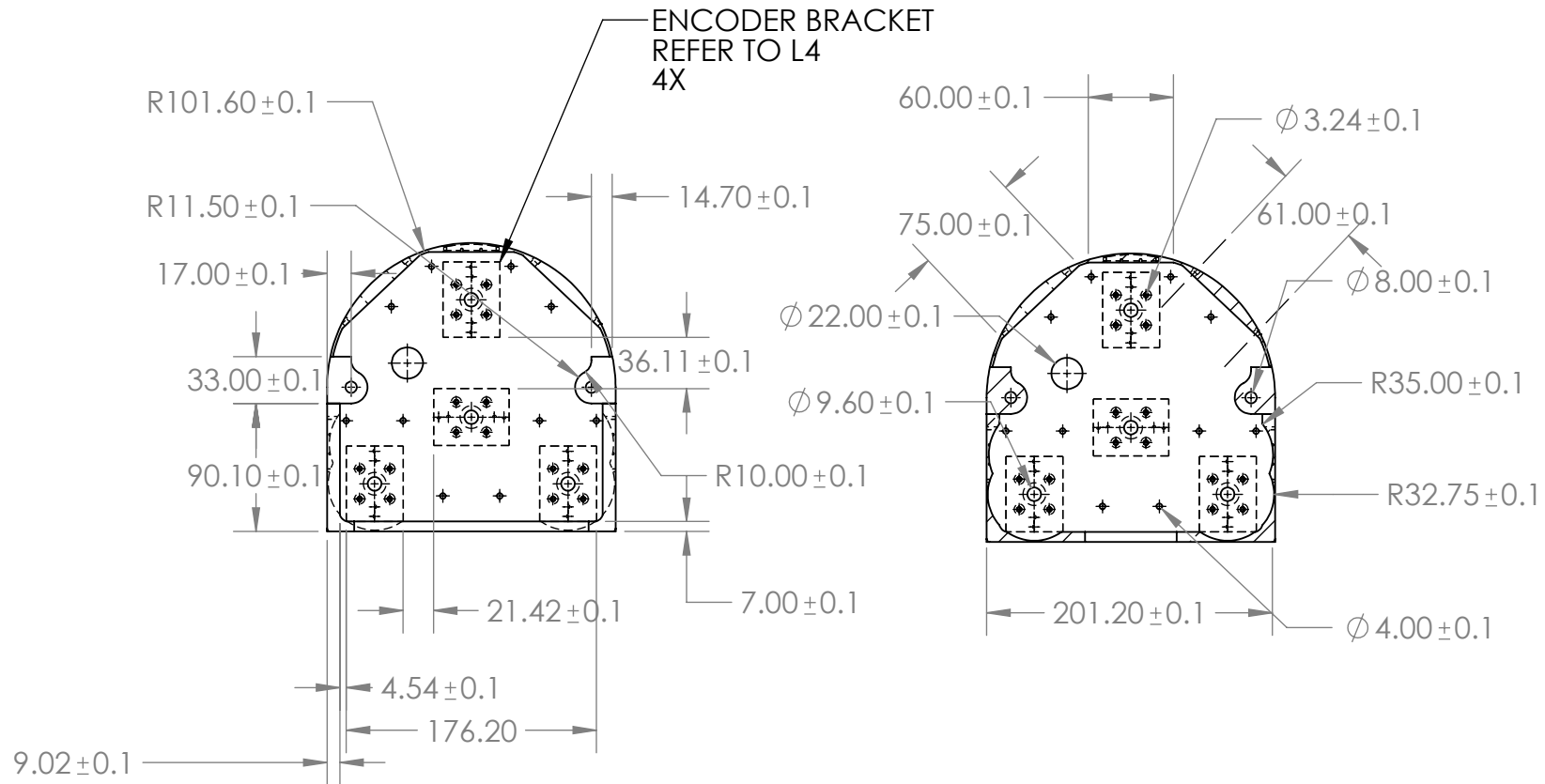
	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

TITLE: FULL BASE PLATE		
SIZE A	DWG. NO. L1	REV A
SCALE: 1:4	WEIGHT:	SHEET 2 OF 25



B

B



A

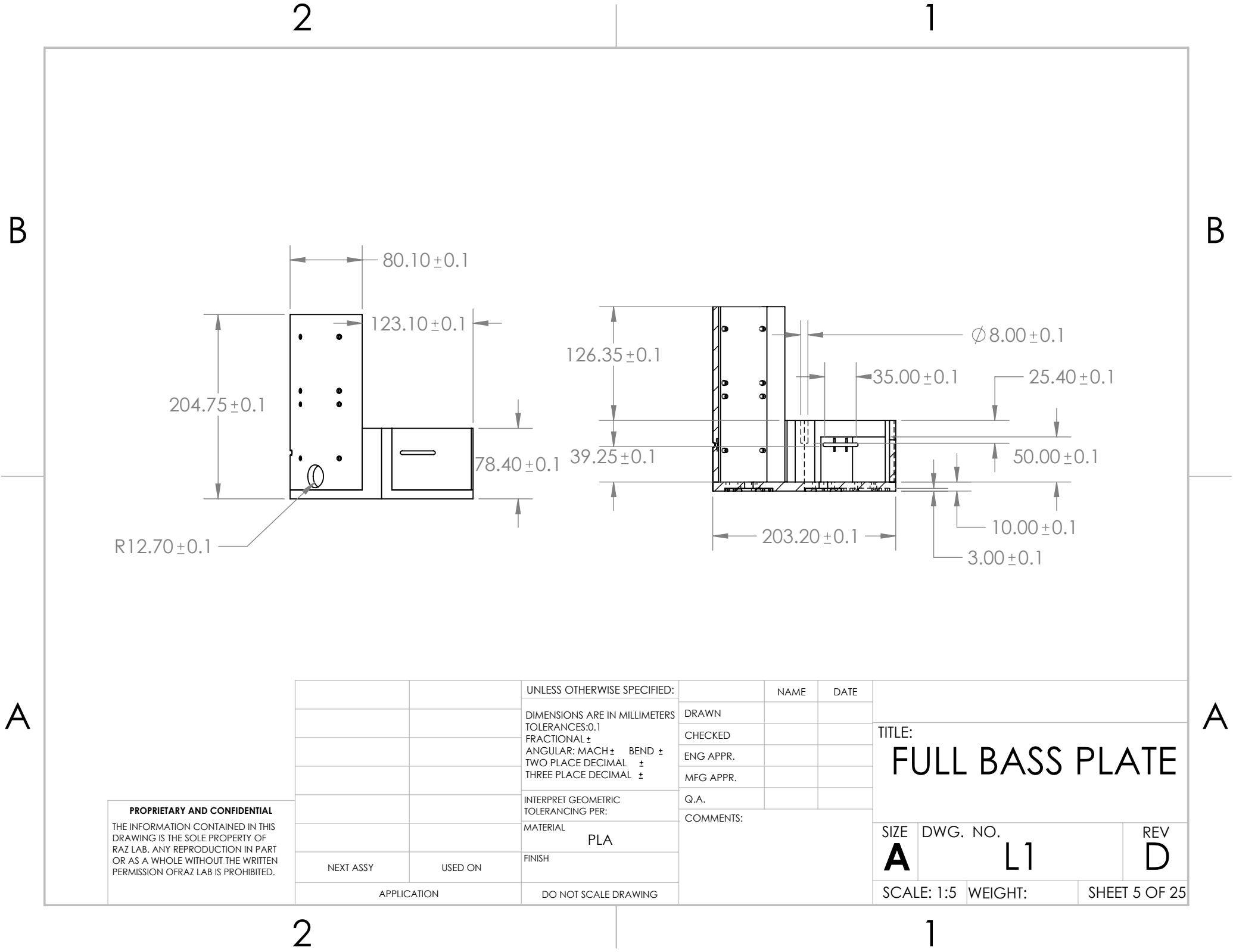
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		UNLESS OTHERWISE SPECIFIED:			NAME	DATE	TITLE: <b>FULL BASE PLATE</b>	
		DIMENSIONS ARE IN MILLIMETERS	DRAWN					
		TOLERANCES: 0.1	CHECKED					
		FRACTIONAL $\pm$	ENG APPR.					
		ANGULAR: MACH $\pm$ BEND $\pm$	MFG APPR.					
		TWO PLACE DECIMAL $\pm$	Q.A.				SIZE DWG. NO. REV	
		THREE PLACE DECIMAL $\pm$	COMMENTS:					
		INTERPRET GEOMETRIC TOLERANCING PER:					SCALE: 1:5 WEIGHT: SHEET 4 OF 25	
		MATERIAL PLA						
		FINISH						
NEXT ASSY		USED ON						
APPLICATION		DO NOT SCALE DRAWING						

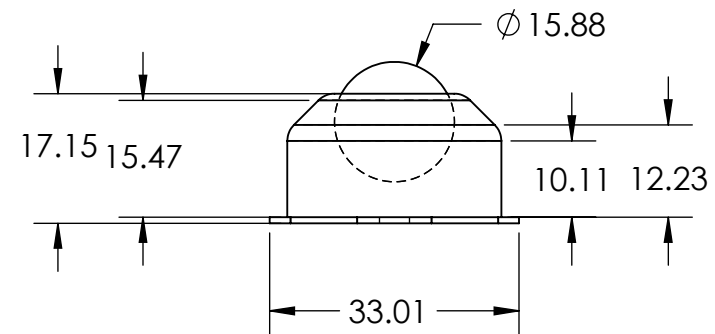
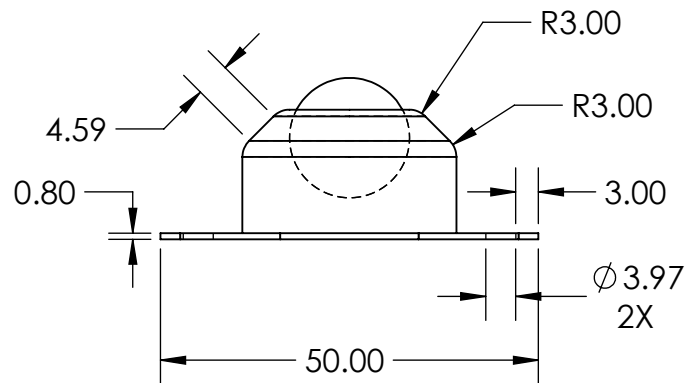
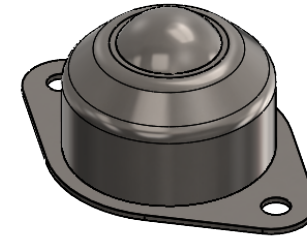
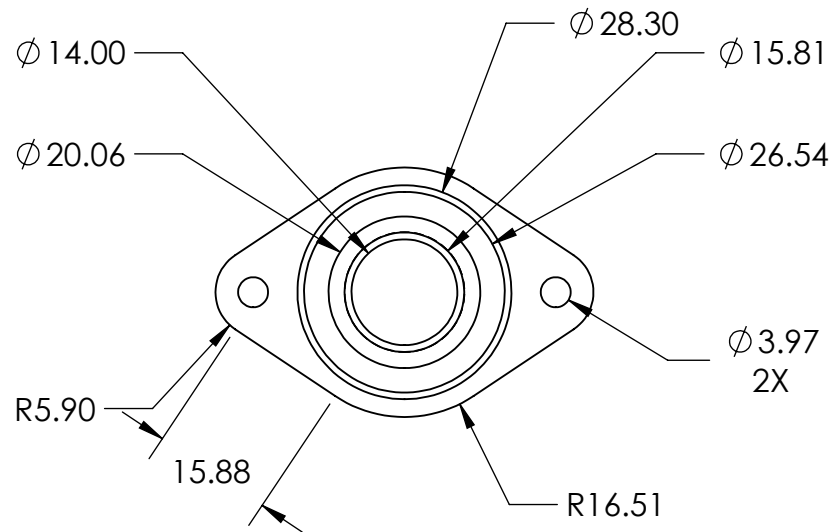
2

1



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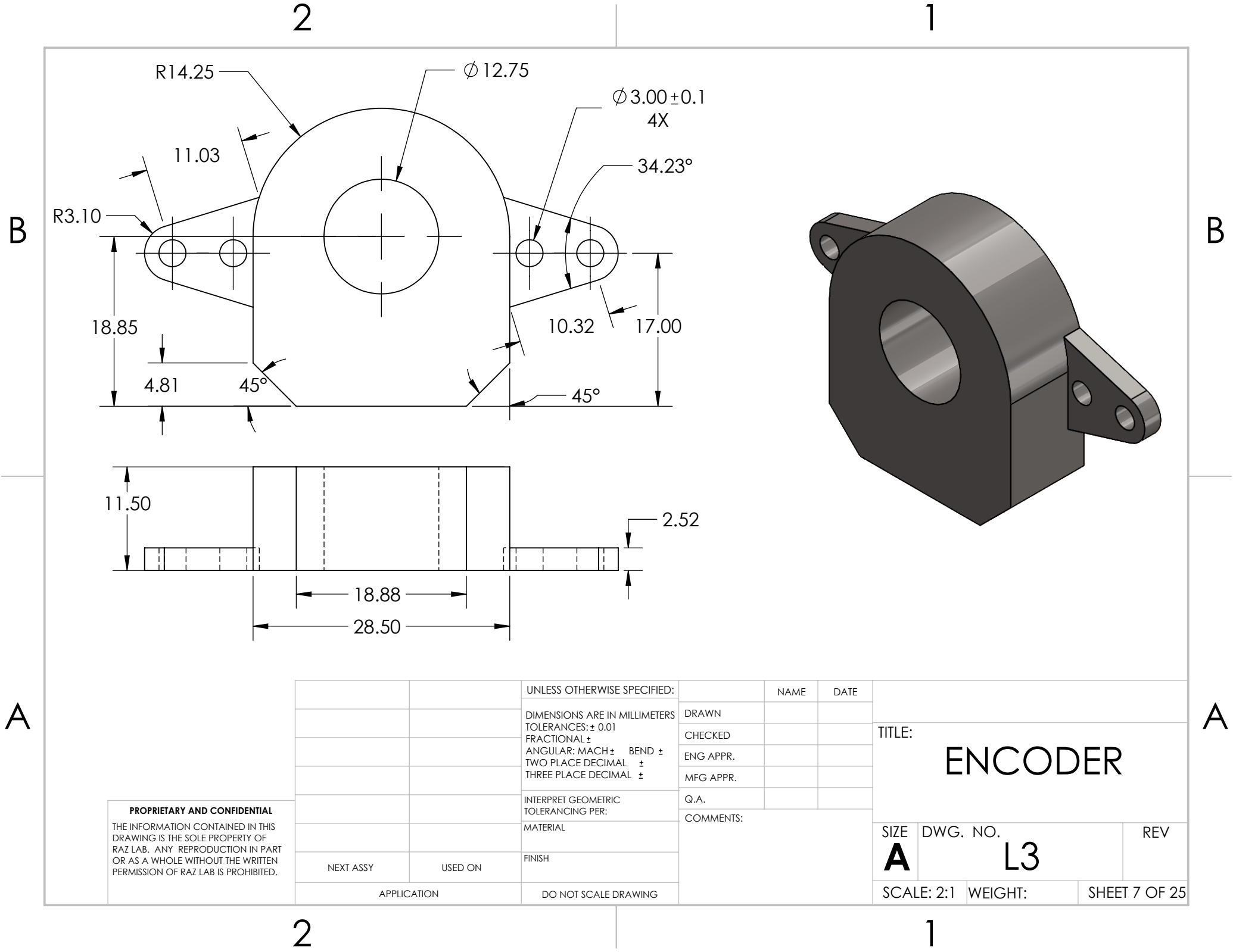
A

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE:  <div>WHEEL</div>			
		DIMENSIONS ARE IN MILLIMETERS	DRAWN						
		TOLERANCES: ±0.01	CHECKED						
		FRACTIONAL ±	ENG APPR.						
		ANGULAR: MACH ±    BEND ±	MFG APPR.						
		TWO PLACE DECIMAL ±	Q.A.			SIZE    DWG. NO.    REV			
		THREE PLACE DECIMAL ±							
		INTERPRET GEOMETRIC TOLERANCING PER:							
		MATERIAL							
		STEEL	COMMENTS:			A    L2			
		FINISH							
NEXT ASSY	USED ON					SCALE: 1:1    WEIGHT:    SHEET 6 OF 25			
APPLICATION		DO NOT SCALE DRAWING							

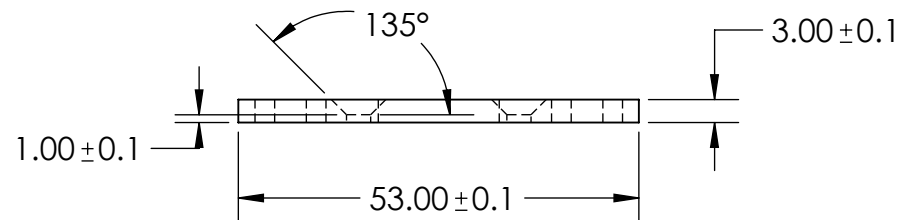
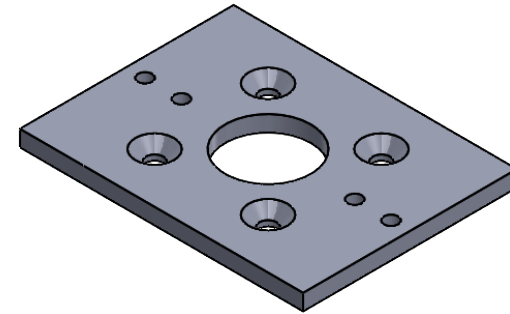
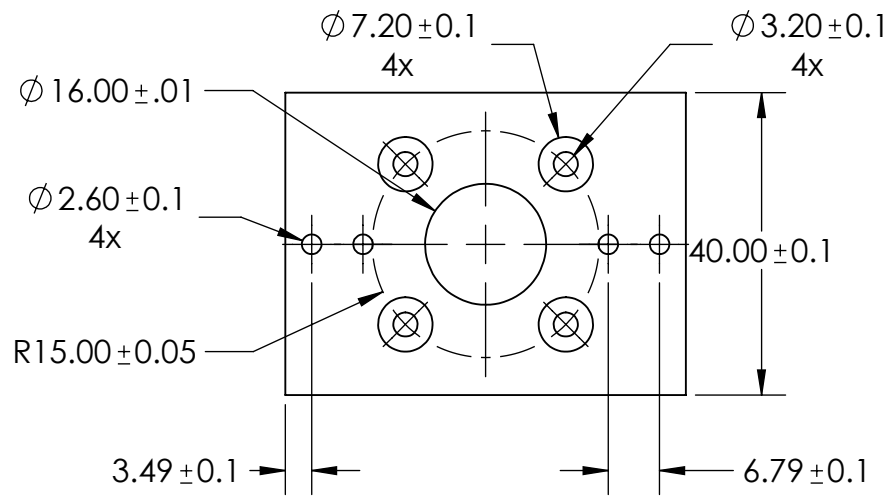
2

1





B



B

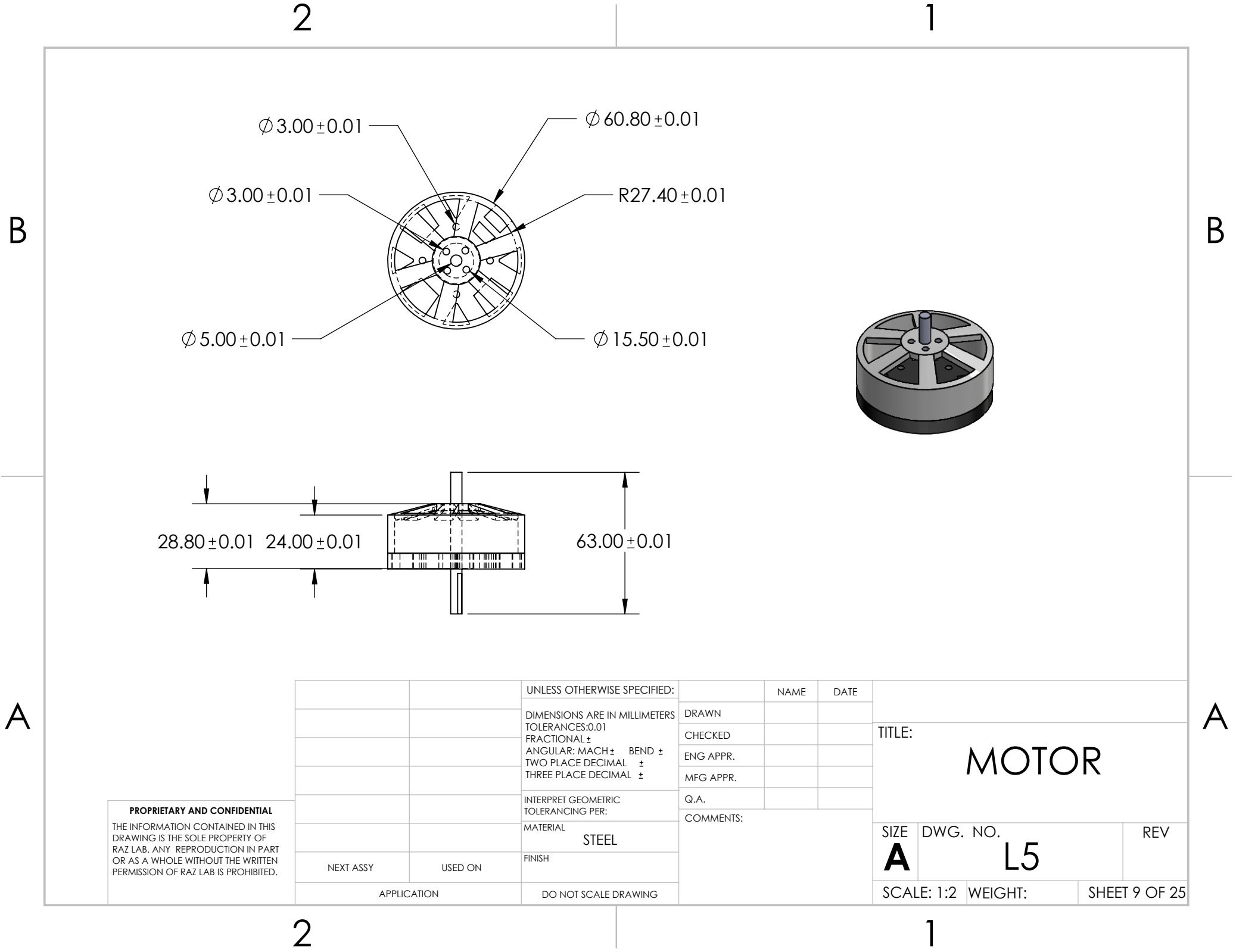
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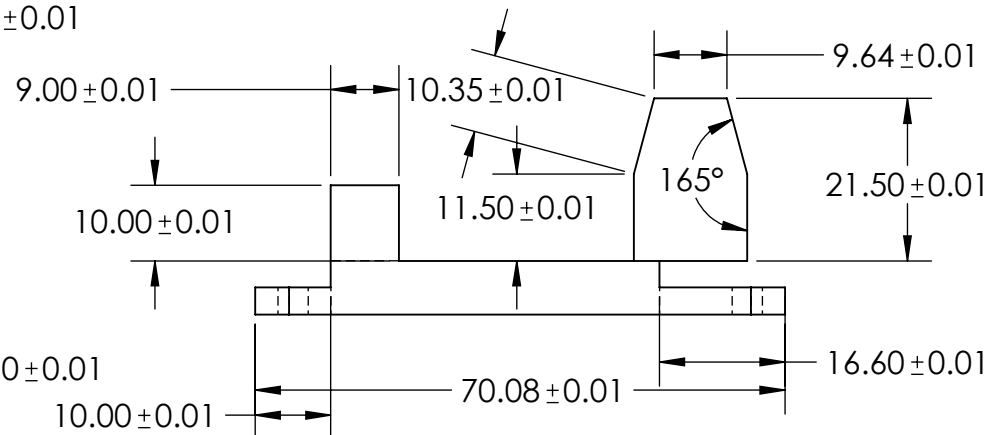
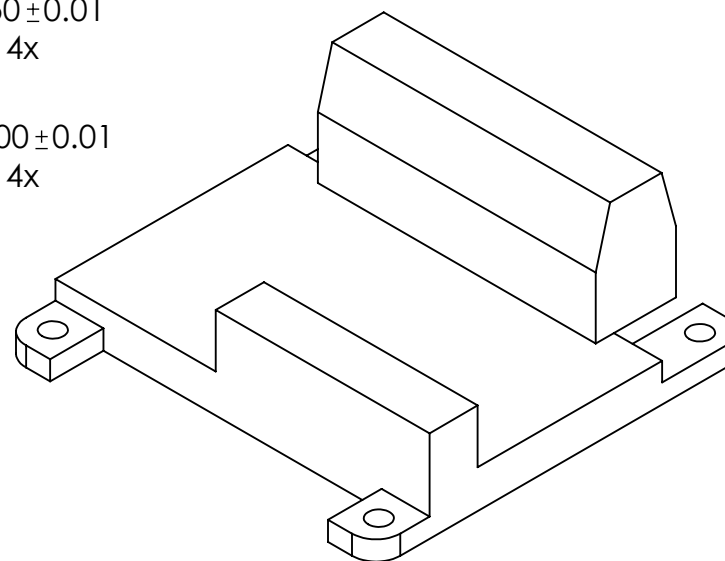
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		FRACTIONAL $\pm$	ENG APPR.					
		ANGULAR: MACH $\pm$ BEND $\pm$	MFG APPR.					
		TWO PLACE DECIMAL $\pm$	Q.A.			SIZE	DWG. NO.	REV
		THREE PLACE DECIMAL $\pm$	COMMENTS:				<b>L4</b>	
		INTERPRET GEOMETRIC TOLERANCING PER:				<b>A</b>		
		MATERIAL				SCALE: 1:1	WEIGHT:	SHEET 8 OF 25
		FINISH						
	NEXT ASSY	USED ON						
	APPLICATION		DO NOT SCALE DRAWING					

2

1



1

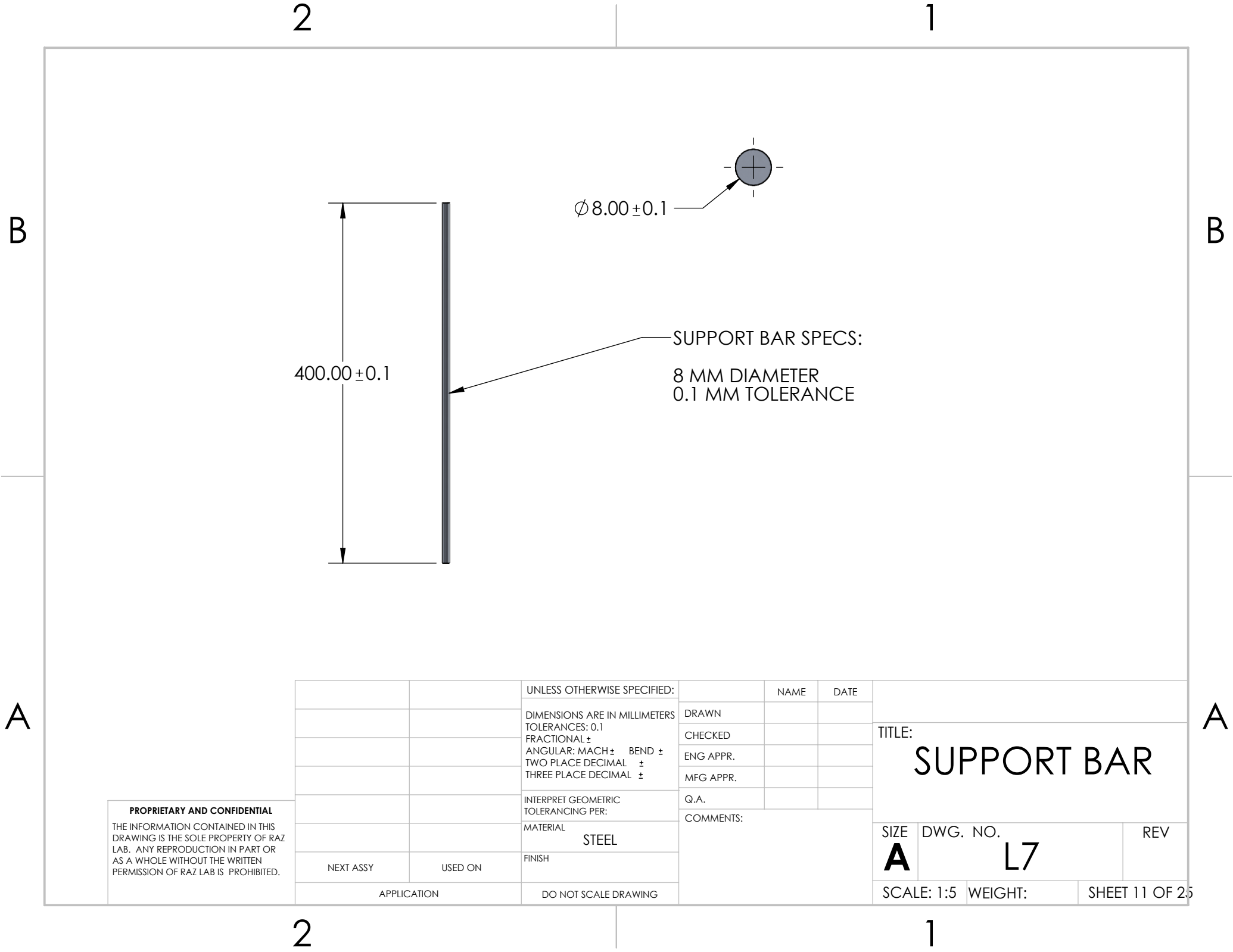


	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

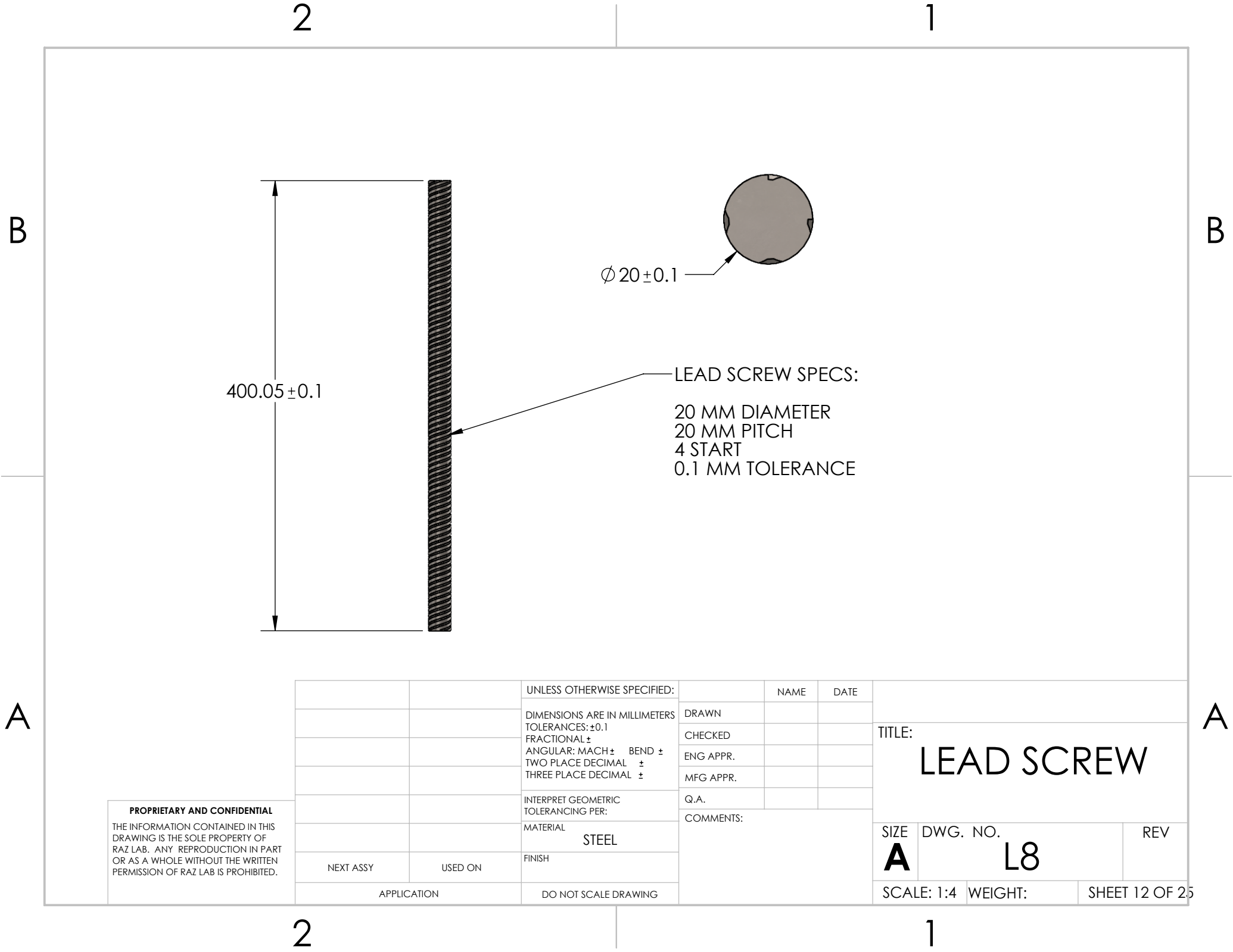
SIZE <b>A</b>	DWG. NO. <b>L6</b>	REV
SCALE: 1:1	WEIGHT:	SHEET 10 OF

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			DIMENSIONS ARE IN MILLIMETERS	DRAWN					
			TOLERANCES: 0.1	CHECKED					
			FRACTIONAL ±	ENG APPR.					
			ANGULAR: MACH ±    BEND ±	MFG APPR.					
			TWO PLACE DECIMAL ±				SIZE    DWG. NO.    REV <div>A    </div>		



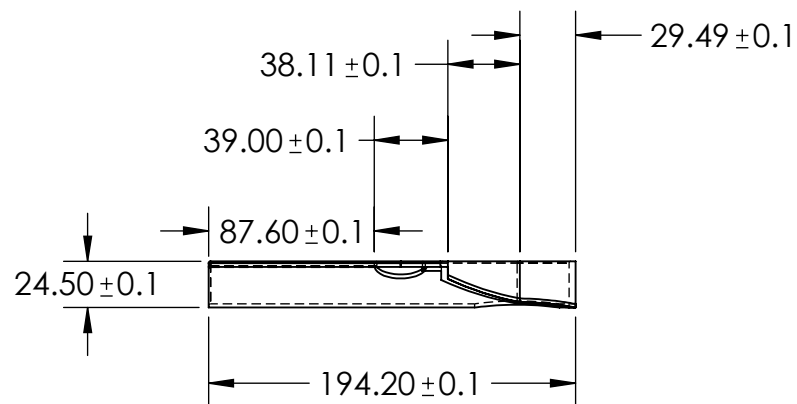
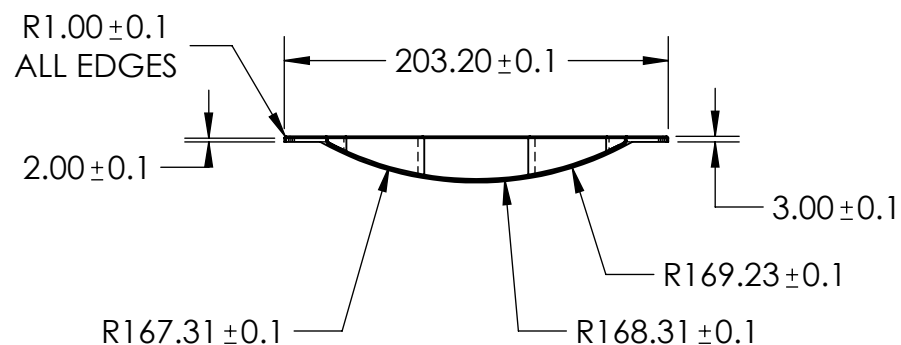
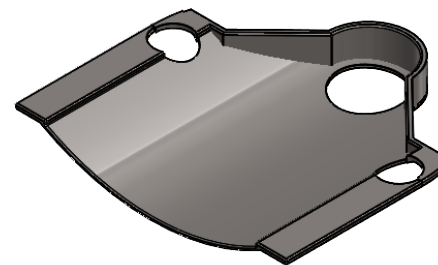
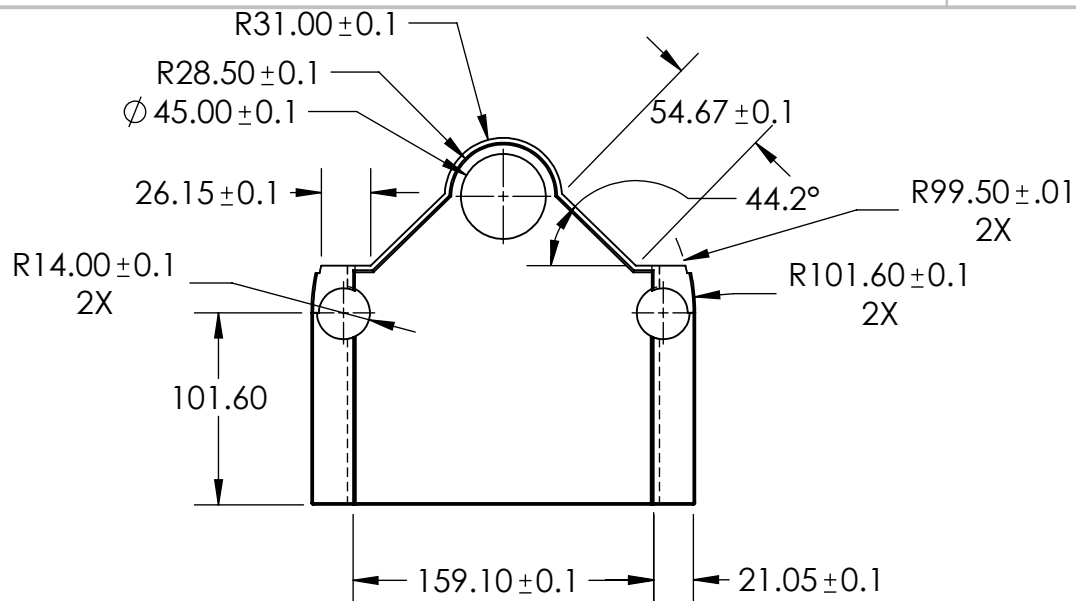
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		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN MILLIMETERS
		TOLERANCES: $\pm 0.1$
		FRACTIONAL $\pm$
		ANGULAR: MACH $\pm$ BEND $\pm$
		TWO PLACE DECIMAL $\pm$
		THREE PLACE DECIMAL $\pm$
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL STEEL
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

TITLE:		
LEAD SCREW		
SIZE	DWG. NO.	REV
A	L8	
SCALE: 1:4	WEIGHT:	SHEET 12 OF 25

B



B

A

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		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN MILLIMETERS
		TOLERANCES: ±0.1
		FRACTIONAL ±
		ANGULAR: MACH ± BEND ±
		TWO PLACE DECIMAL ±
		THREE PLACE DECIMAL ±
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL PLA
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

TITLE:

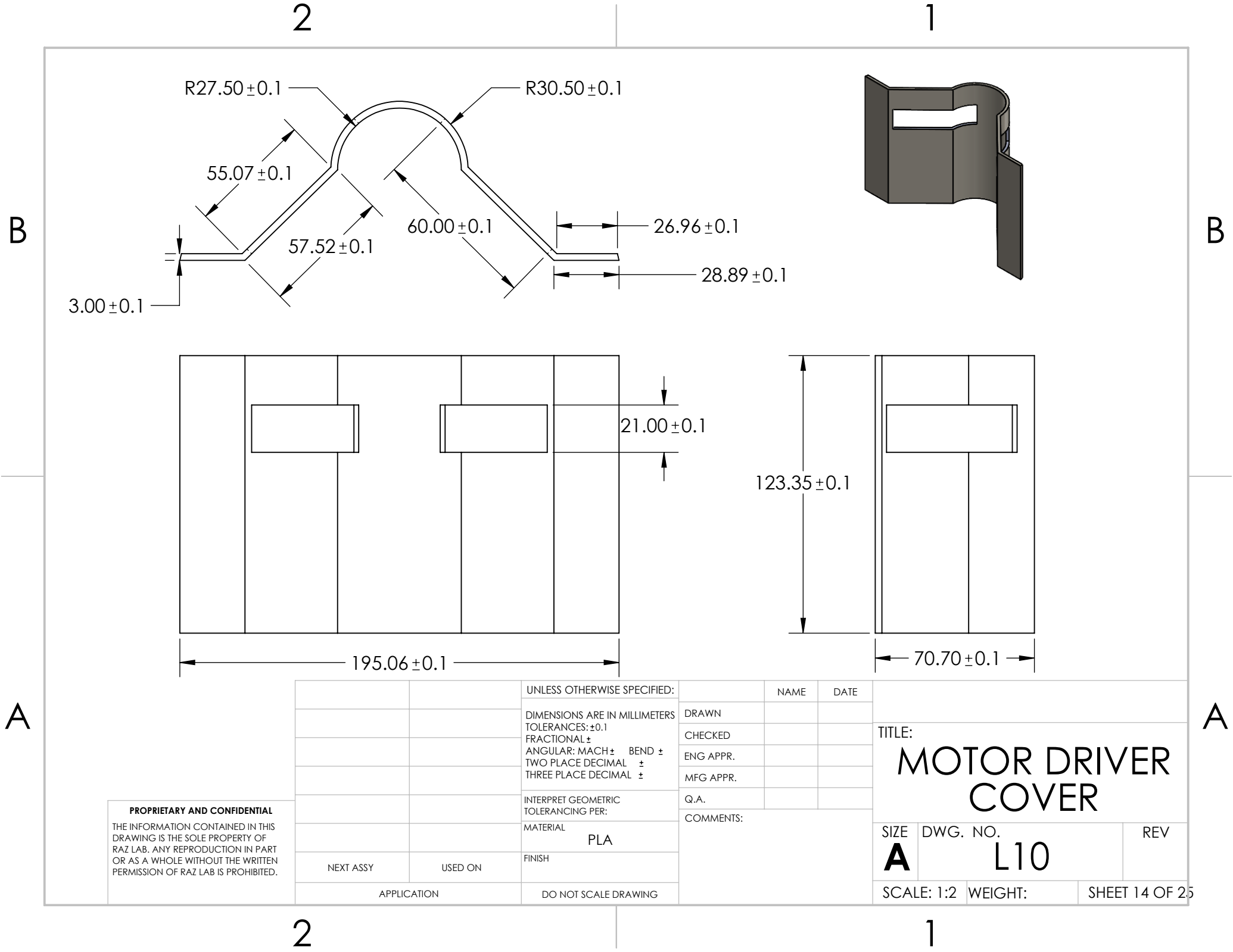
LOWER COVER

SIZE	DWG. NO.	REV
A	L9	

SCALE: 1:4 WEIGHT: SHEET 13 OF 25

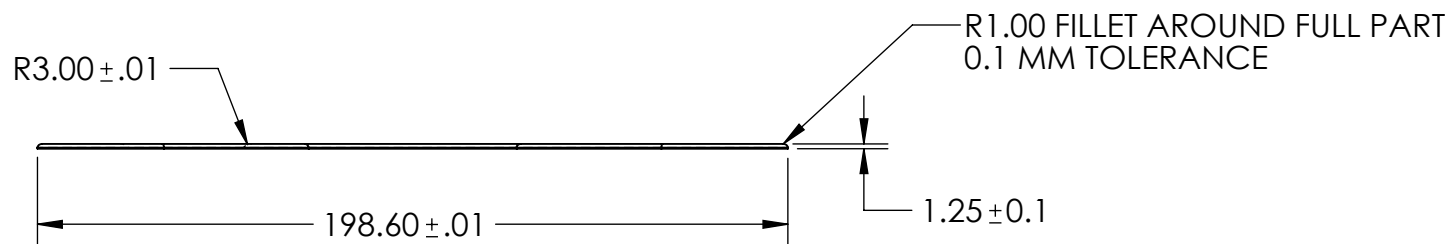
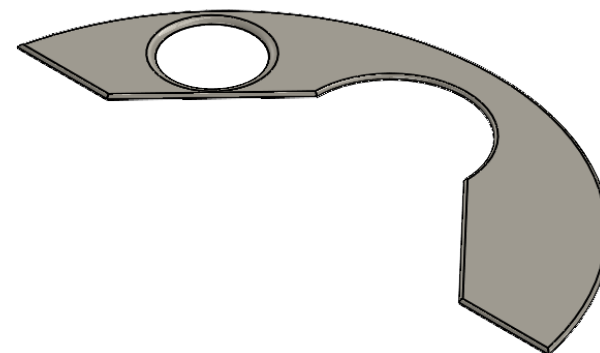
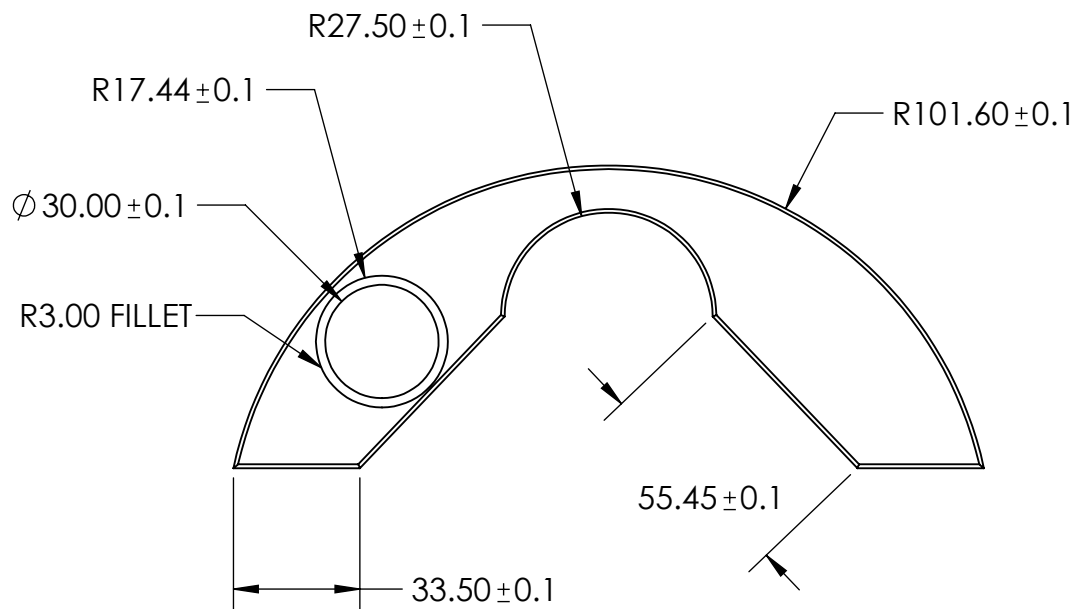
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: <div>REAR WALL LID</div>			
		DIMENSIONS ARE IN IMILLIMETERS	DRAWN						
		TOLERANCES: ±0.1	CHECKED						
		FRACTIONAL ±	ENG APPR.						
		ANGULAR: MACH ±    BEND ±	MFG APPR.						
		TWO PLACE DECIMAL    ±				SIZE    DWG. NO.    REV <div>A    L11</div>			
		THREE PLACE DECIMAL    ±							
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.						
		MATERIAL    PLA	COMMENTS:						
		FINISH							
NEXT ASSY	USED ON					SCALE: 1:2    WEIGHT:    SHEET 15 OF 2			
APPLICATION		DO NOT SCALE DRAWING							

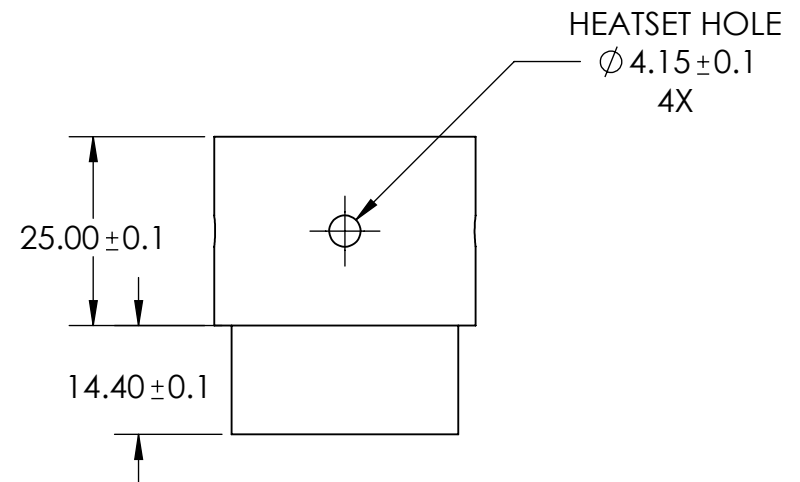
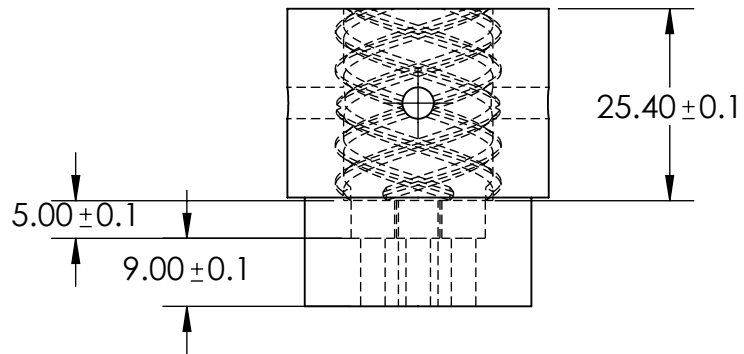
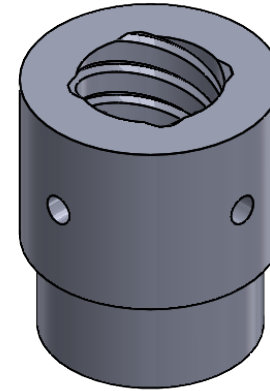
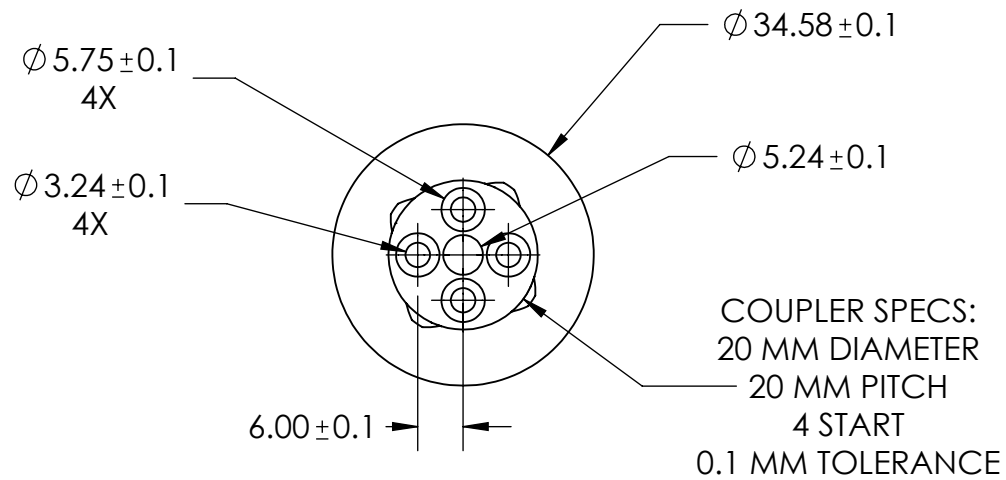
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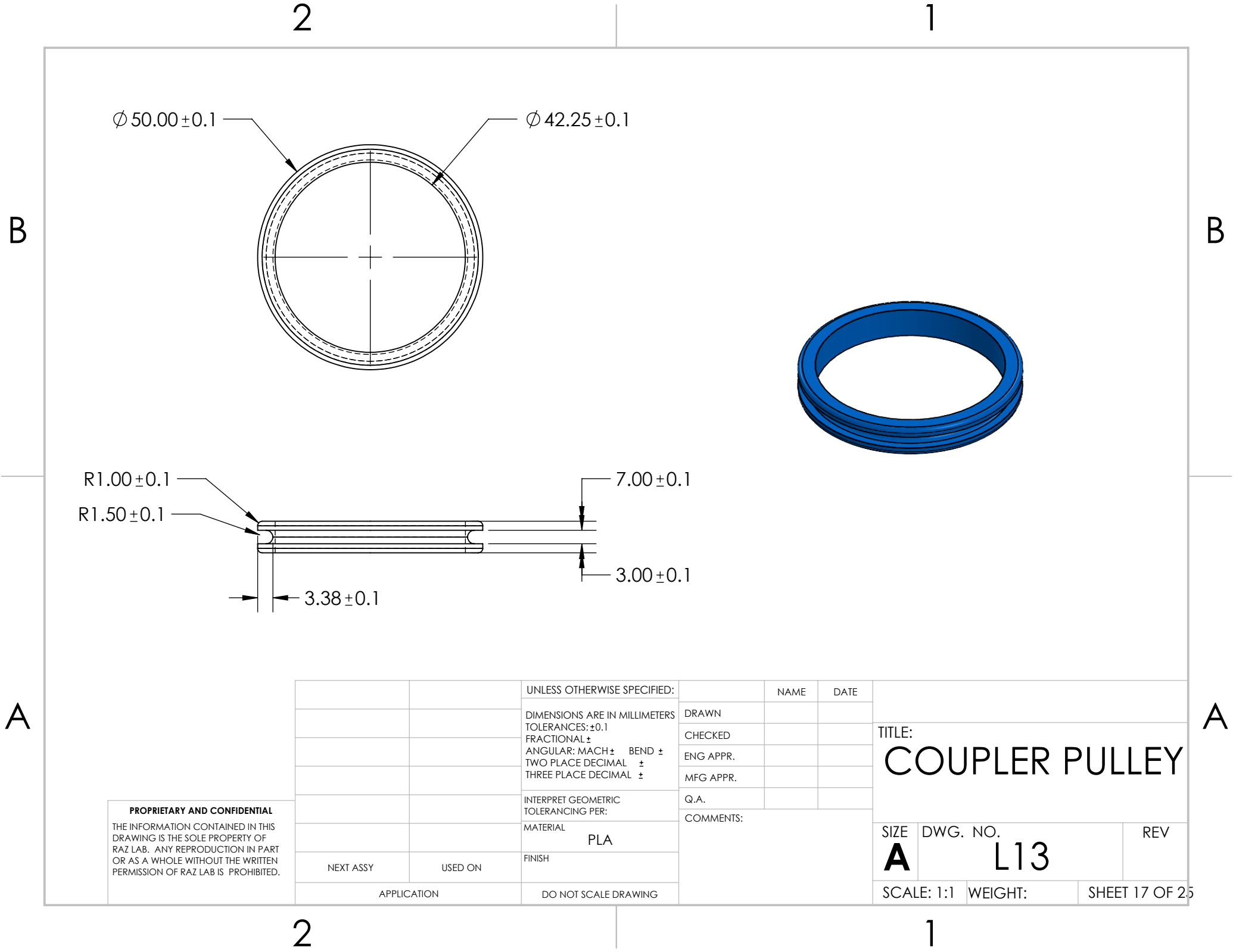
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: <b>COUPLER</b>		
		DIMENSIONS ARE IN MILLIMETERS	DRAWN					
		TOLERANCES: $\pm 0.1$	CHECKED					
		FRACTIONAL $\pm$	ENG APPR.					
		ANGULAR: MACH $\pm$ BEND $\pm$	MFG APPR.					
		TWO PLACE DECIMAL $\pm$	Q.A.			SIZE DWG. NO. REV		
		THREE PLACE DECIMAL $\pm$	COMMENTS:					
		INTERPRET GEOMETRIC TOLERANCING PER:				<b>A</b> <b>L12</b>		
		MATERIAL PLA						
		FINISH				SCALE: 1:1 WEIGHT: SHEET 16 OF 25		
NEXT ASSY	USED ON							
APPLICATION		DO NOT SCALE DRAWING						

2

1



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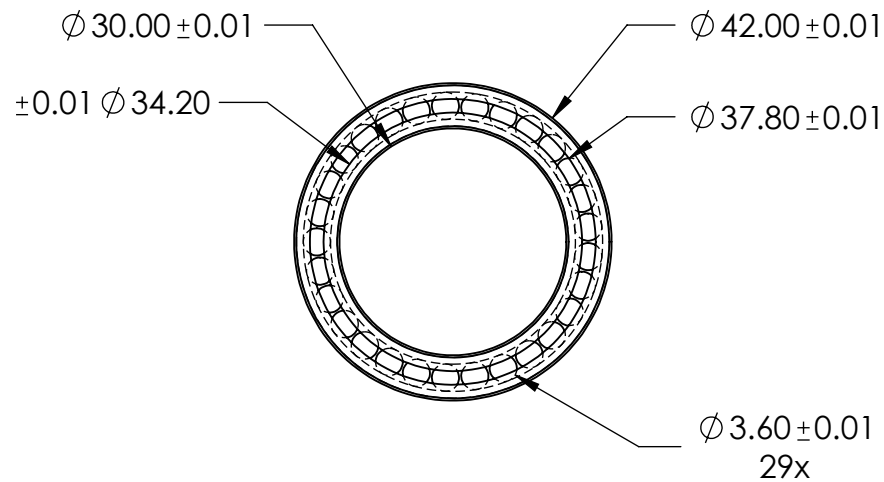
		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN MILLIMETERS
		TOLERANCES: $\pm 0.1$
		FRACTIONAL $\pm$
		ANGULAR: MACH $\pm$ BEND $\pm$
		TWO PLACE DECIMAL $\pm$
		THREE PLACE DECIMAL $\pm$
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL PLA
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

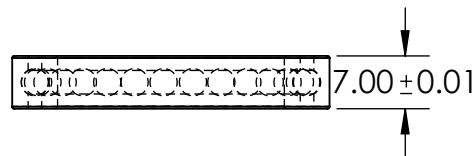
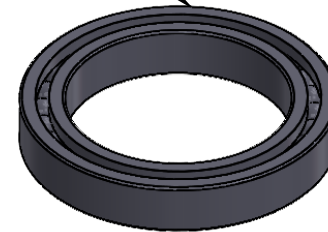
TITLE:		
COUPLER PULLEY		
SIZE	DWG. NO.	REV
A	L13	
SCALE: 1:1	WEIGHT:	SHEET 17 OF 25

B

B



BEARING MODEL NUMBER:  
6806



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BEARING MODEL NUMBER:  
6806

NEXT ASSY

USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MILLIMETERS  
TOLERANCES:  $\pm 0.01$   
FRACTIONAL  $\pm$   
ANGULAR: MACH  $\pm$  BEND  $\pm$   
TWO PLACE DECIMAL  $\pm$   
THREE PLACE DECIMAL  $\pm$

INTERPRET GEOMETRIC  
TOLERANCING

MATERIAL  
STEEL

FINISH

DO NOT SCALE DRAWING

NAME DATE

DRAWN

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:

TITLE:

COUPLER  
BEARING

SIZE

A

DWG. NO.

L14

REV

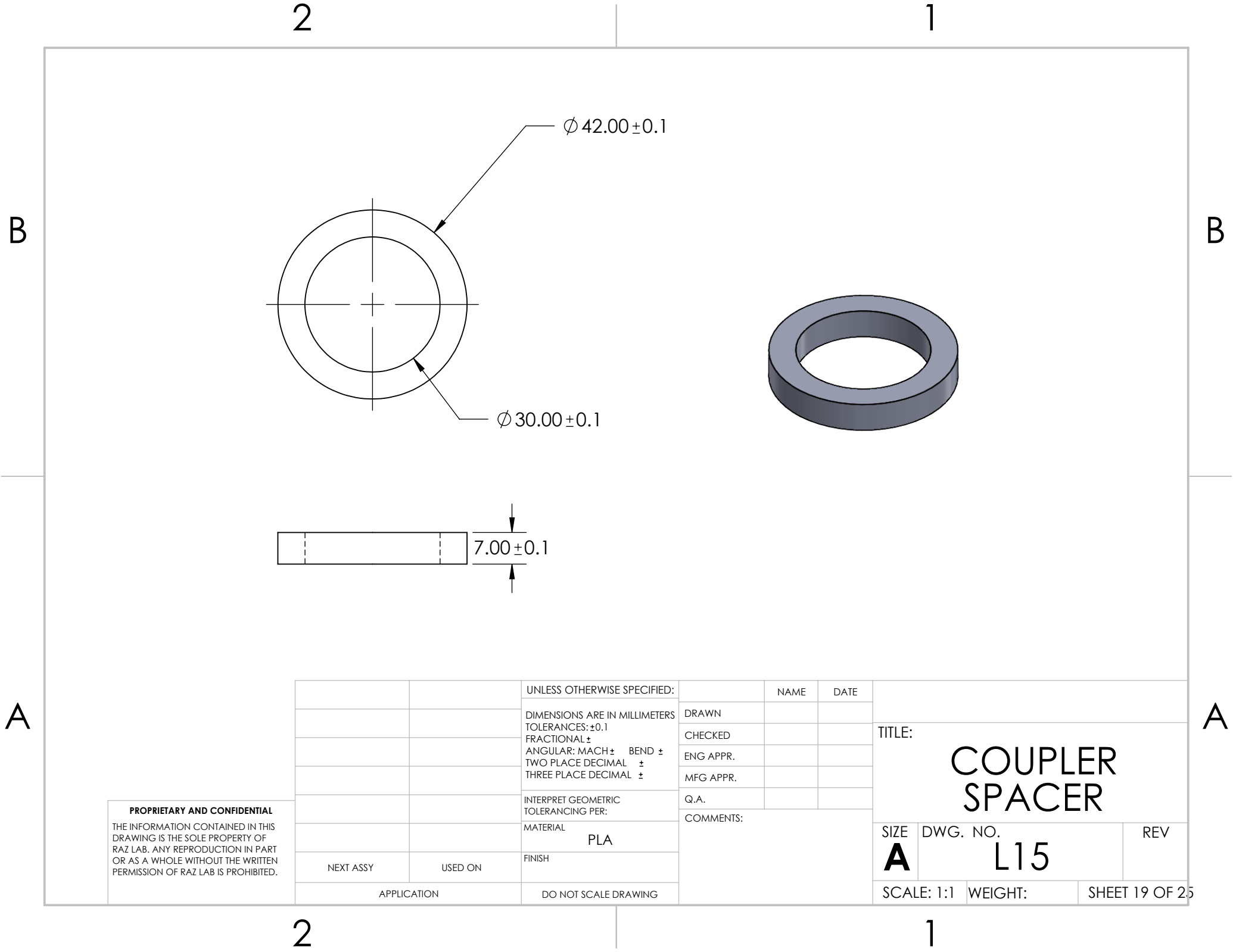
SCALE: 1:1

WEIGHT:

SHEET 18 OF 25

2

1



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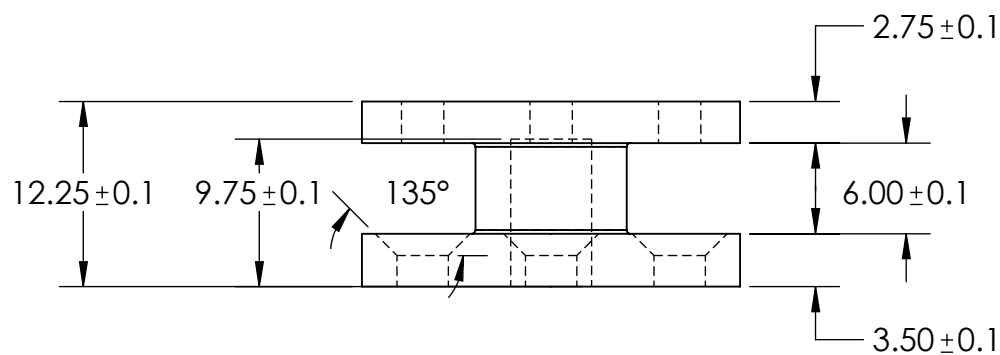
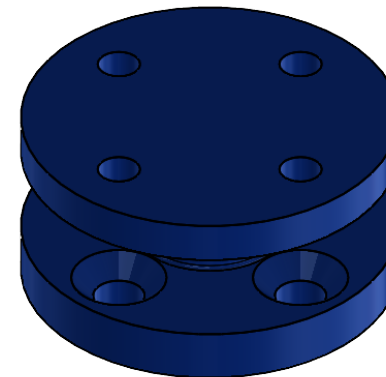
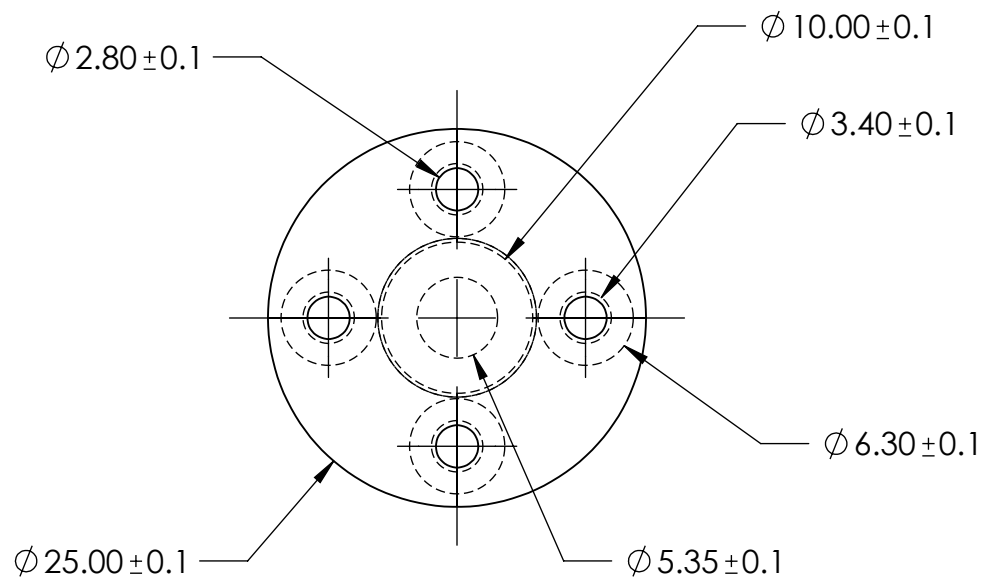
		UNLESS OTHERWISE SPECIFIED:
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		TOLERANCES: $\pm 0.1$
		FRACTIONAL $\pm$
		ANGULAR: MACH $\pm$ BEND $\pm$
		TWO PLACE DECIMAL $\pm$
		THREE PLACE DECIMAL $\pm$
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL PLA
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

TITLE:		
COUPLER SPACER		
SIZE	DWG. NO.	REV
A	L15	
SCALE: 1:1	WEIGHT:	SHEET 19 OF 25

B

B



A

A

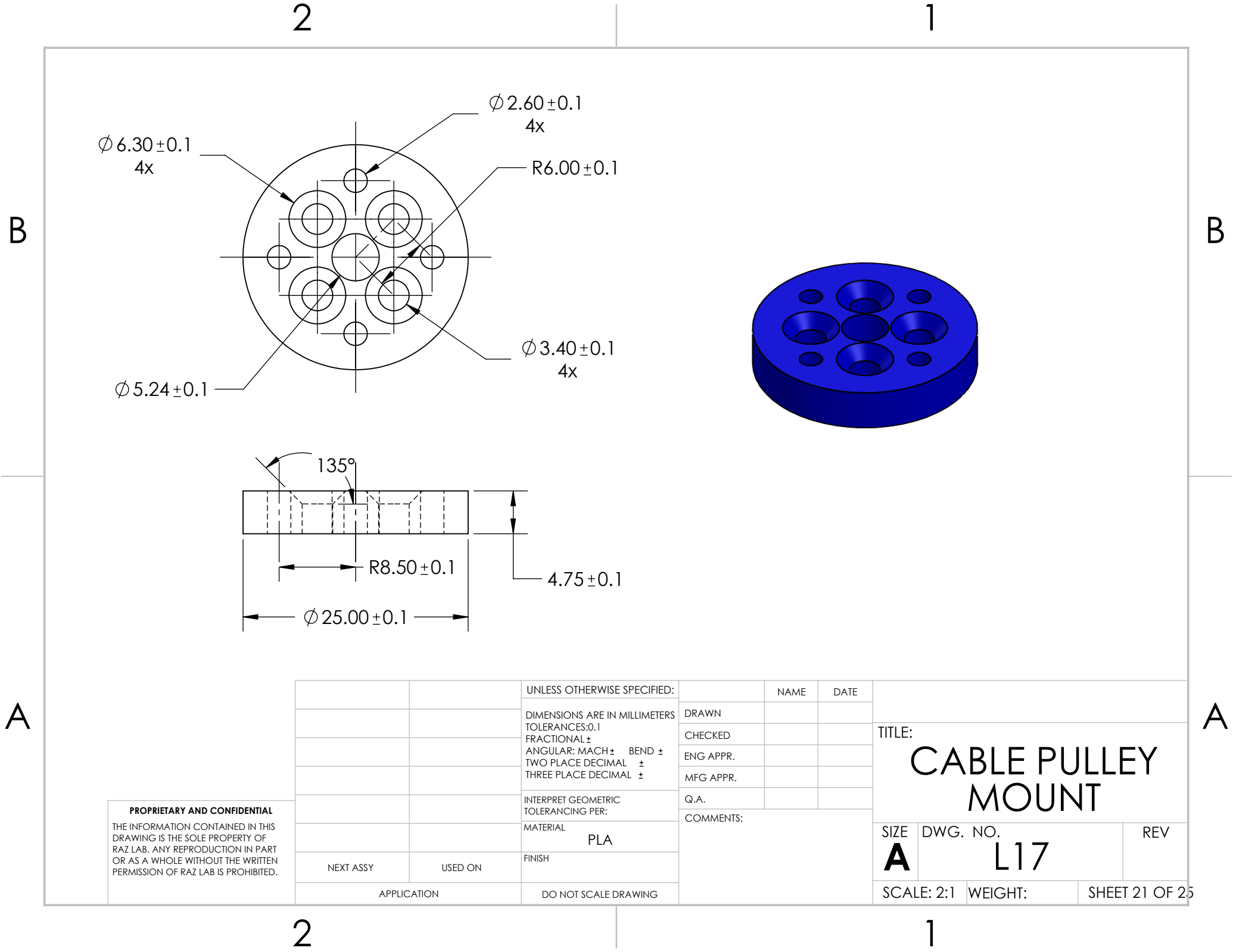
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: <div>CABLE PULLEY</div>			
		DIMENSIONS ARE IN MILLIMETERS	DRAWN						
		TOLERANCES:0.1	CHECKED						
		FRACTIONAL ±	ENG APPR.						
		ANGULAR: MACH ±    BEND ±	MFG APPR.						
		TWO PLACE DECIMAL ±				SIZE    DWG. NO.    REV <div>A                      L16</div>			
		THREE PLACE DECIMAL ±							
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.						
		MATERIAL	COMMENTS:						
		PLA							
		FINISH							
NEXT ASSY	USED ON								
APPLICATION		DO NOT SCALE DRAWING	SCALE: 2:1			WEIGHT:		SHEET 20 OF 2	

SCALE: 2:1 WEIGHT: SHEET 20 OF 25

2

1



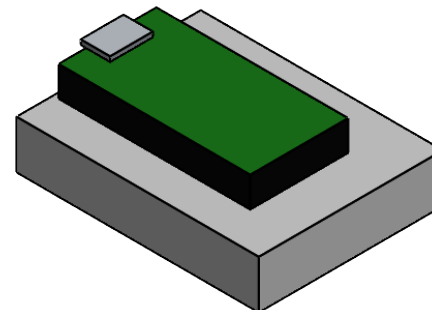
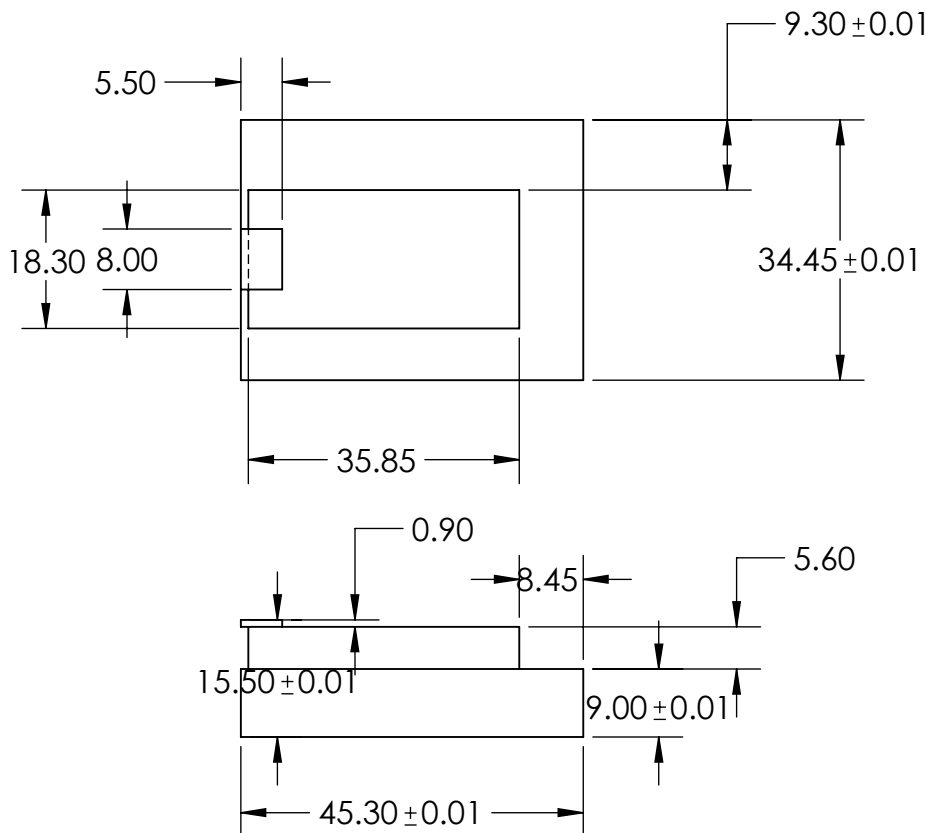
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		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN MILLIMETERS
		TOLERANCES: 0.1
		FRACTIONAL $\pm$
		ANGULAR: MACH $\pm$ BEND $\pm$
		TWO PLACE DECIMAL $\pm$
		THREE PLACE DECIMAL $\pm$
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL PLA
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

TITLE:		
CABLE PULLEY MOUNT		
SIZE	DWG. NO.	REV
A	L17	
SCALE: 2:1	WEIGHT:	SHEET 21 OF 25

B

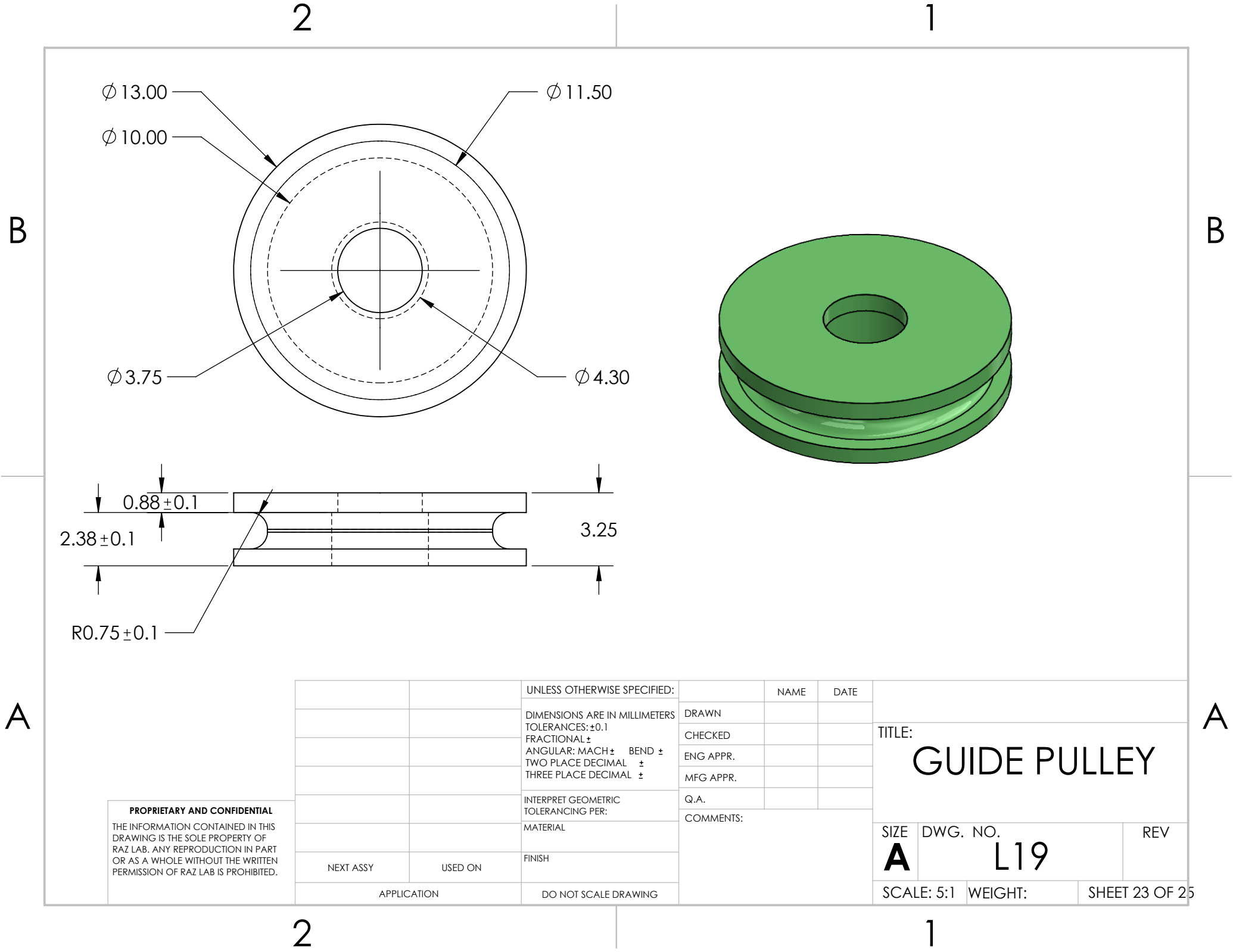


B

A

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			DIMENSIONS ARE IN MILLIMETERS	DRAWN				
			TOLERANCES:	CHECKED				
			FRACTIONAL ±	ENG APPR.				
			ANGULAR: MACH ± BEND ±	MFG APPR.				
			TWO PLACE DECIMAL ±	Q.A.				
			THREE PLACE DECIMAL ±	COMMENTS:				
		INTERPRET GEOMETRIC TOLERANCING PER:						
		MATERIAL						
		FINISH						
	NEXT ASSY	USED ON	DO NOT SCALE DRAWING	SIZE <b>A</b> DWG. NO. <b>L18</b> REV				
APPLICATION				SCALE: 1:1		WEIGHT:		SHEET 22 OF 25

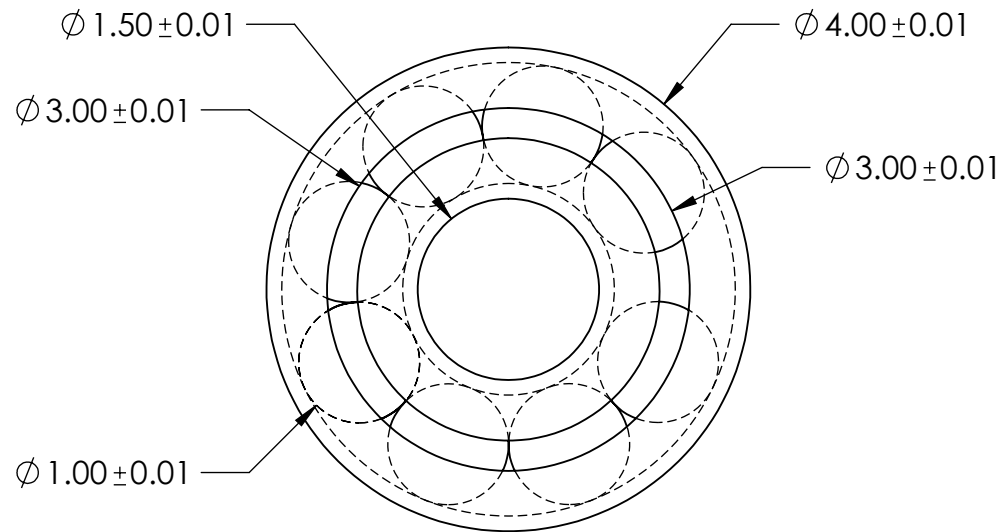
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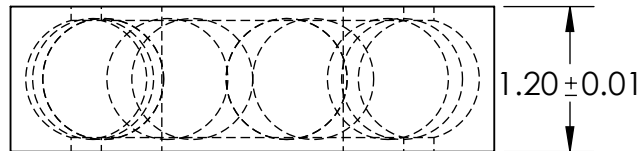
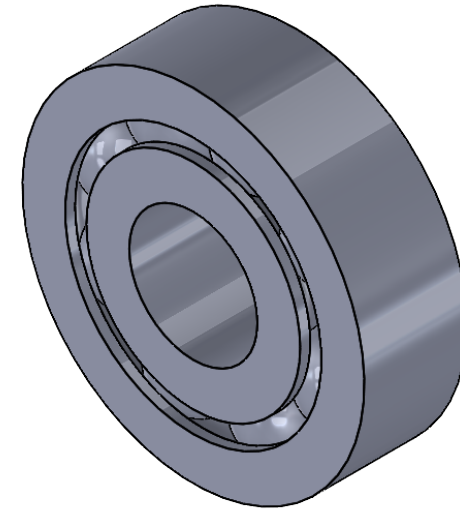


B

B



BEARING MODEL:  
S681X



A

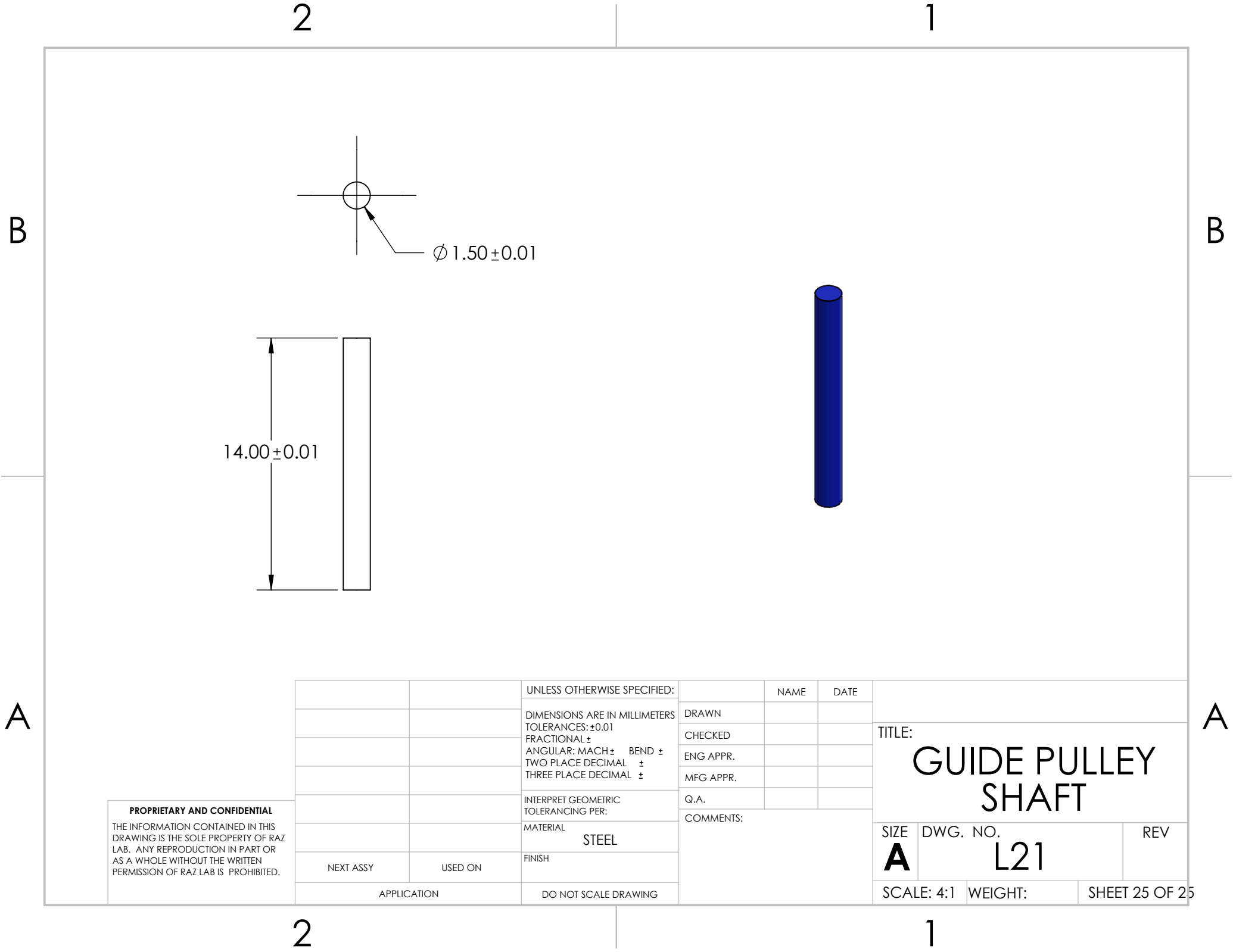
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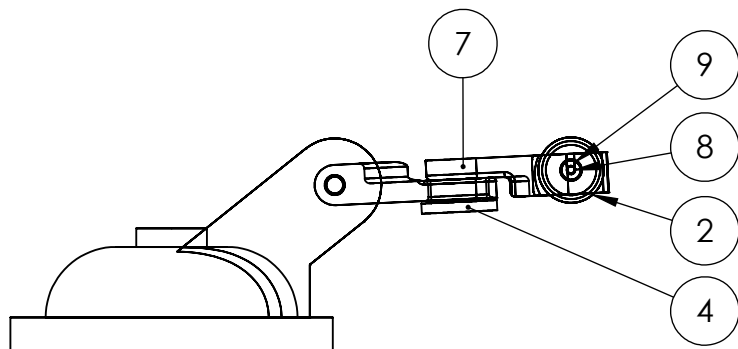
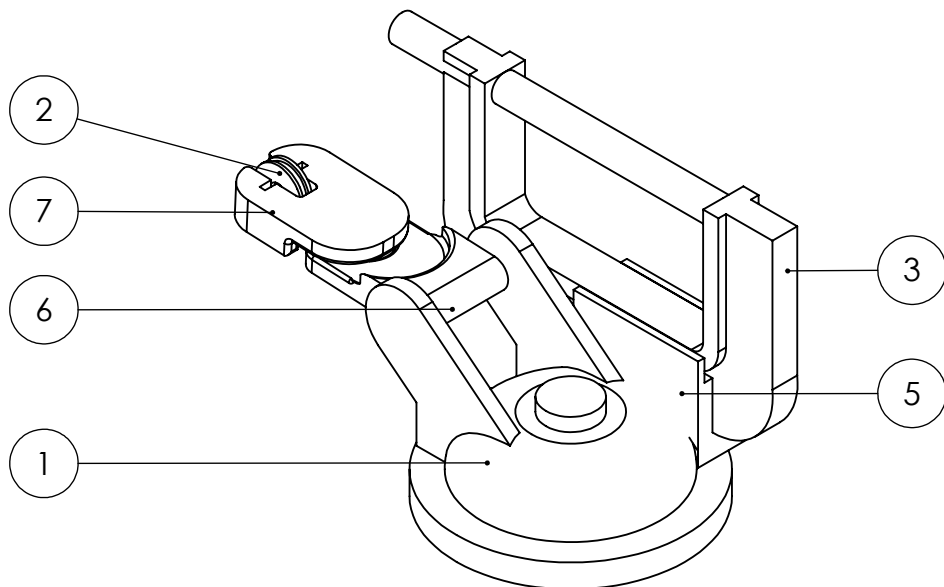
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: <b>GUIDE PULLEY BEARING</b>		
		DIMENSIONS ARE IN MILLIMETERS	DRAWN					
		TOLERANCES: $\pm 0.01$	CHECKED					
		FRACTIONAL $\pm$	ENG APPR.					
		ANGULAR: MACH $\pm$ BEND $\pm$	MFG APPR.					
		TWO PLACE DECIMAL $\pm$	Q.A.			SIZE	DWG. NO.	REV
		THREE PLACE DECIMAL $\pm$	COMMENTS:				<b>A</b>	<b>L20</b>
		INTERPRET GEOMETRIC TOLERANCING PER:				SCALE: 16:1	WEIGHT:	SHEET 24 OF 25
		MATERIAL						
		STEEL						
		FINISH						
	NEXT ASSY	USED ON						
	APPLICATION		DO NOT SCALE DRAWING					

2

1



B



ITEM NO.	PART NUMBER	QTY.
1	Suction Cup	1
2	Idler Pulley	1
3	C-Clamp	1
4	Anchor Pully Lock	1
5	Anchor Clamp Mount	1
6	Anchor Suction Cup Mount	1
7	Anchor Pully Mount	1
8	Idler Pulley Shaft	1
9	Idler Pulley Bearing	1

B

A

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN MILLIMETERS	DRAWN	JM	11/20/25
		TOLERANCES: NONE	CHECKED		
		FRACTIONAL $\pm$	ENG APPR.		
		ANGULAR: MACH $\pm$ BEND $\pm$	MFG APPR.		
		TWO PLACE DECIMAL $\pm$	Q.A.		
		THREE PLACE DECIMAL $\pm$	COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

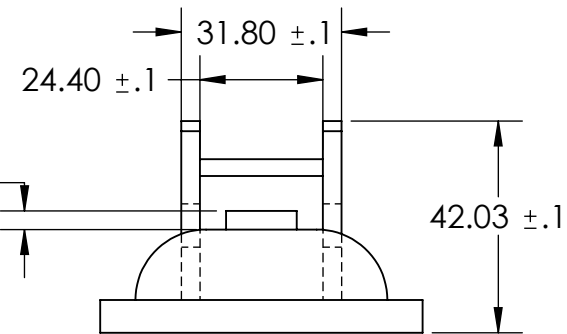
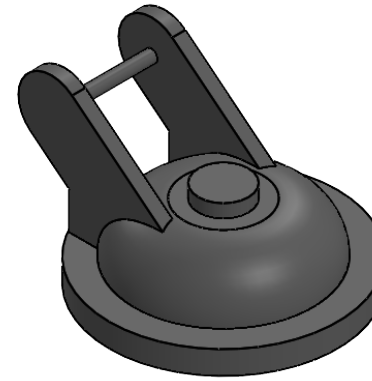
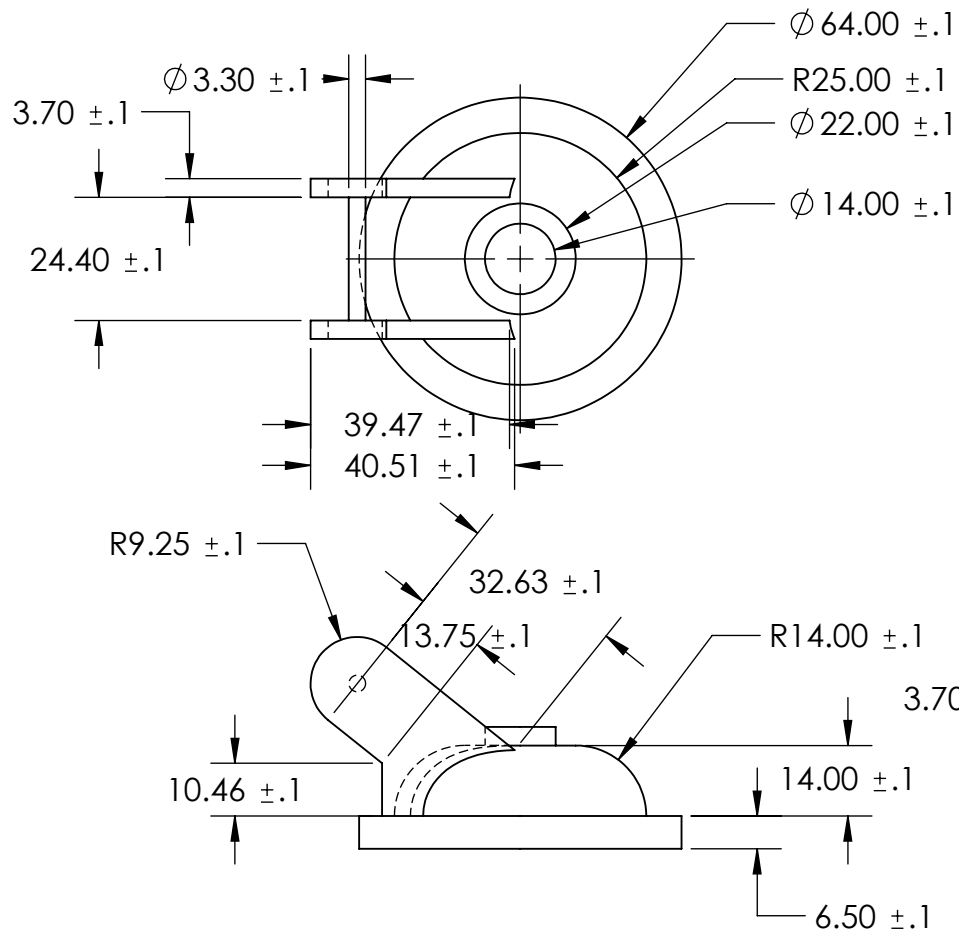
TITLE:  
**Flying Squirrel  
Anchor Assembly**

SIZE	DWG. NO.	REV
<b>A</b>	<b>A-0</b>	
SCALE: 1:1.5	WEIGHT:	SHEET 1 OF 10

A

B

B

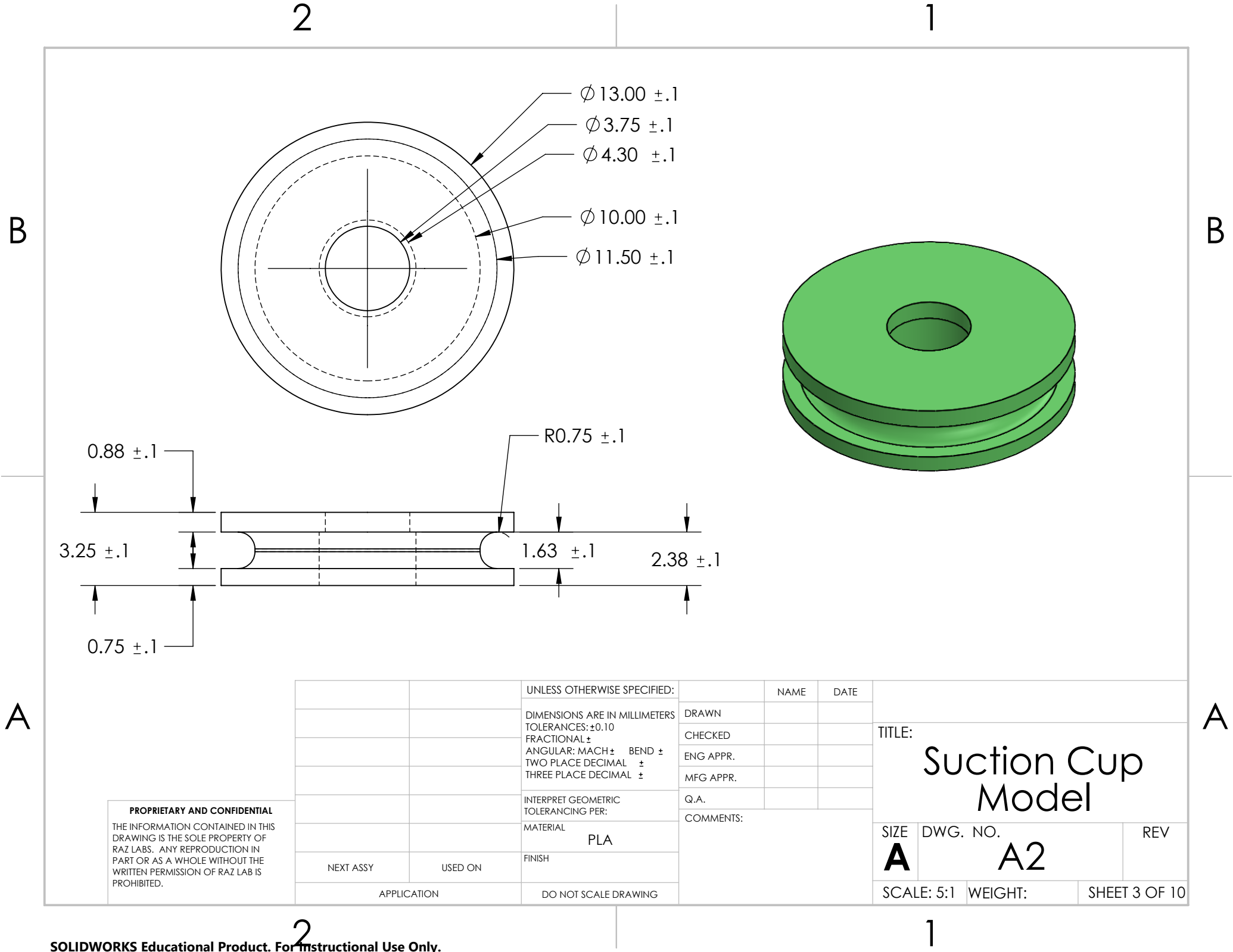


A

A

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE:  Suction Cup Model		
		DIMENSIONS ARE IN MILLIMETERS	DRAWN					
		TOLERANCES: ±0.10	CHECKED					
		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ±    BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±				SIZE A	DWG. NO. A-1	REV
		THREE PLACE DECIMAL ±	Q.A.					
		INTERPRET GEOMETRIC TOLERANCING PER:	COMMENTS:					
		MATERIAL ABS						
NEXT ASSY	USED ON	FINISH						
APPLICATION		DO NOT SCALE DRAWING	SCALE: 1:1.5 WEIGHT: SHEET 2 OF 10					



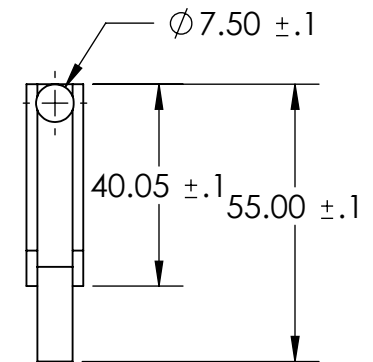
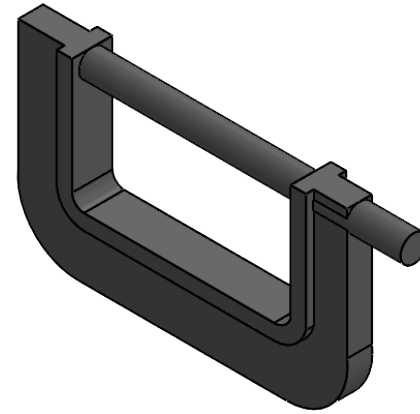
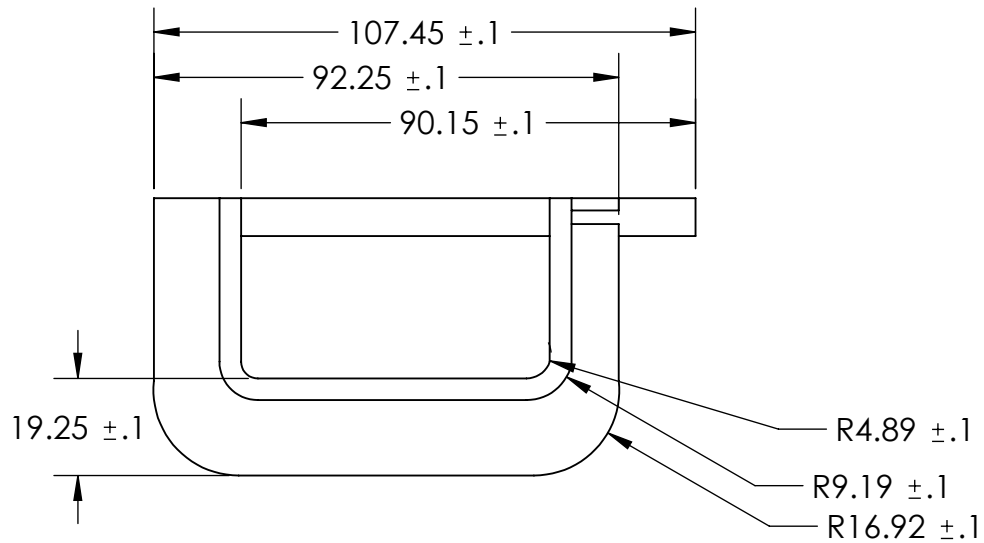
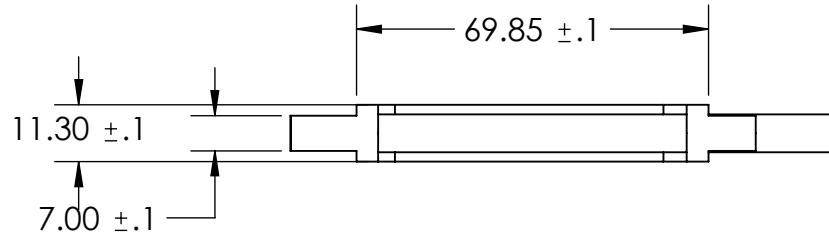
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		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN MILLIMETERS
		TOLERANCES: $\pm 0.10$
		FRACTIONAL $\pm$
		ANGULAR: MACH $\pm$ BEND $\pm$
		TWO PLACE DECIMAL $\pm$
		THREE PLACE DECIMAL $\pm$
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL PLA
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

TITLE:		
Suction Cup Model		
SIZE	DWG. NO.	REV
A	A2	
SCALE: 5:1	WEIGHT:	SHEET 3 OF 10

B



B

A

A

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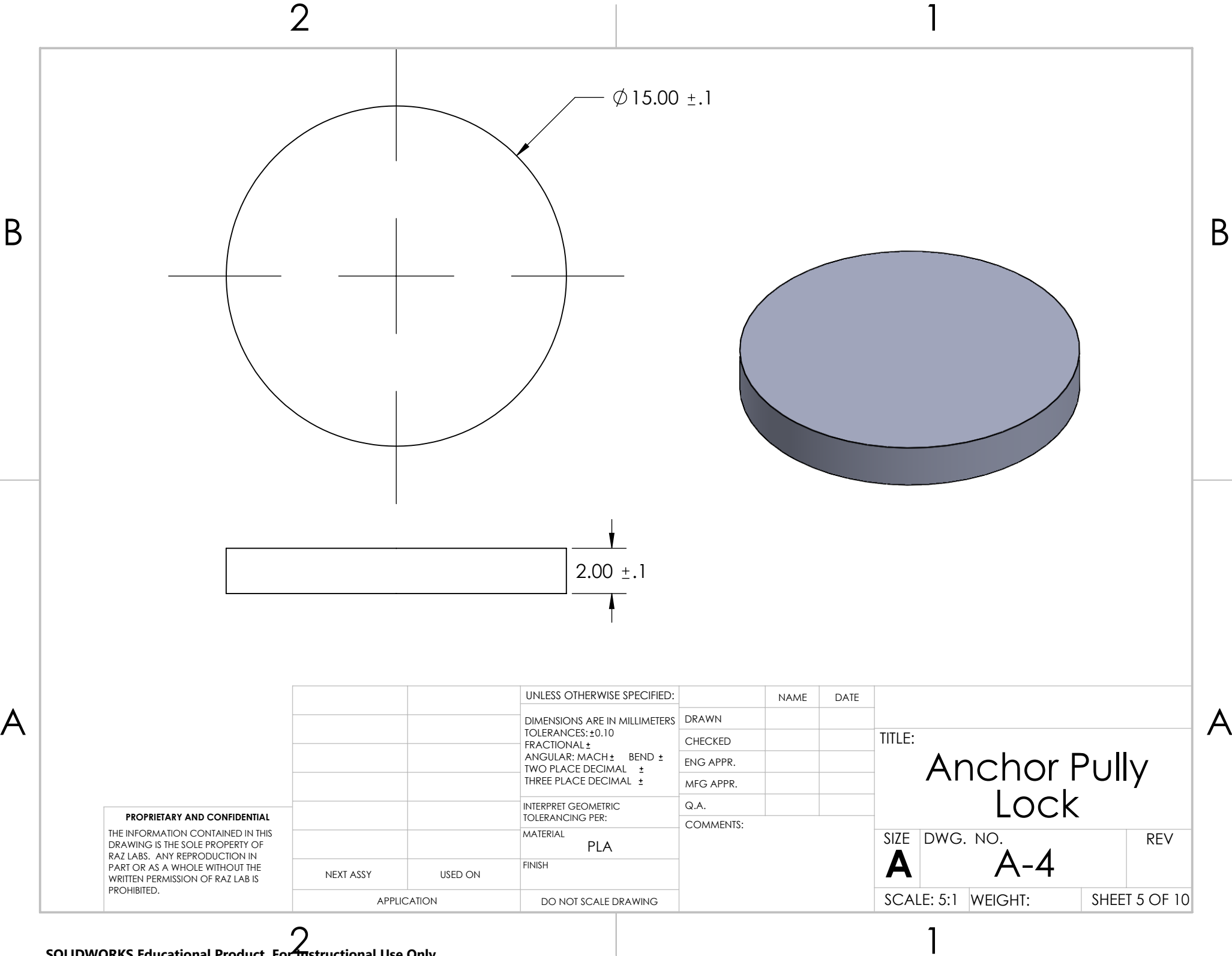
		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN MILLIMETERS
		TOLERANCES: ±0.10
		FRACTIONAL ±
		ANGULAR: MACH ± BEND ±
		TWO PLACE DECIMAL ±
		THREE PLACE DECIMAL ±
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL
		STEEL
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

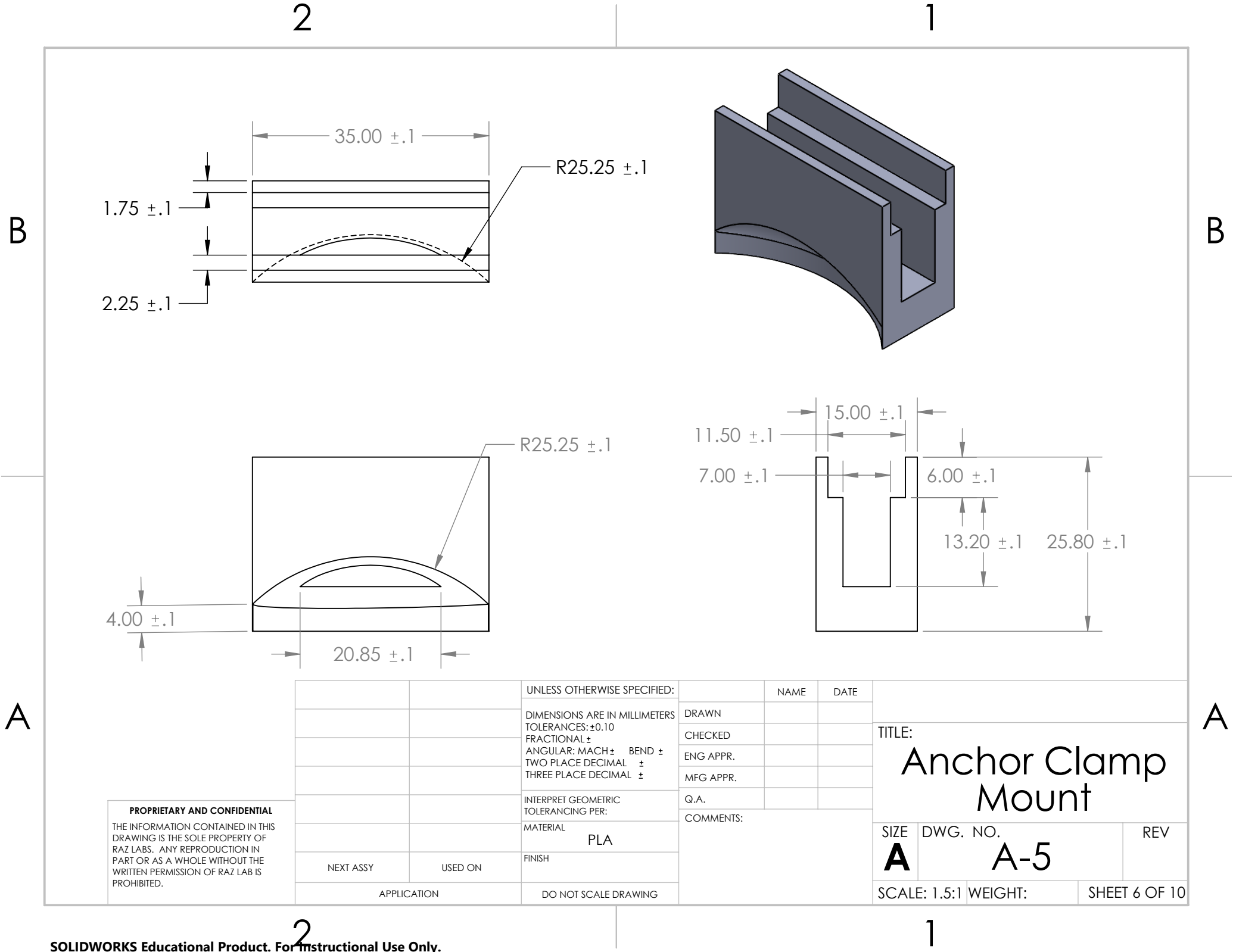
	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

TITLE:

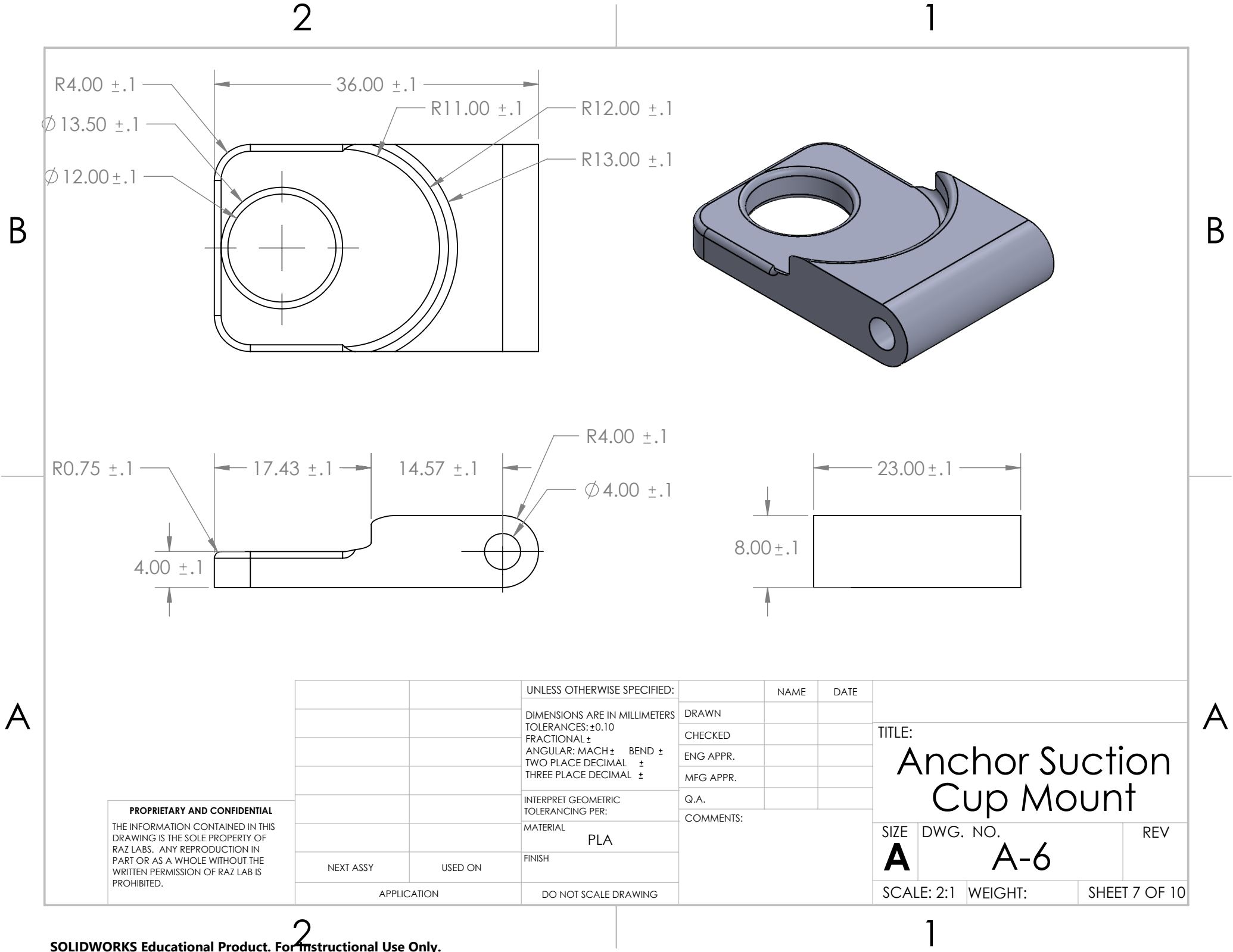
C-Clamp

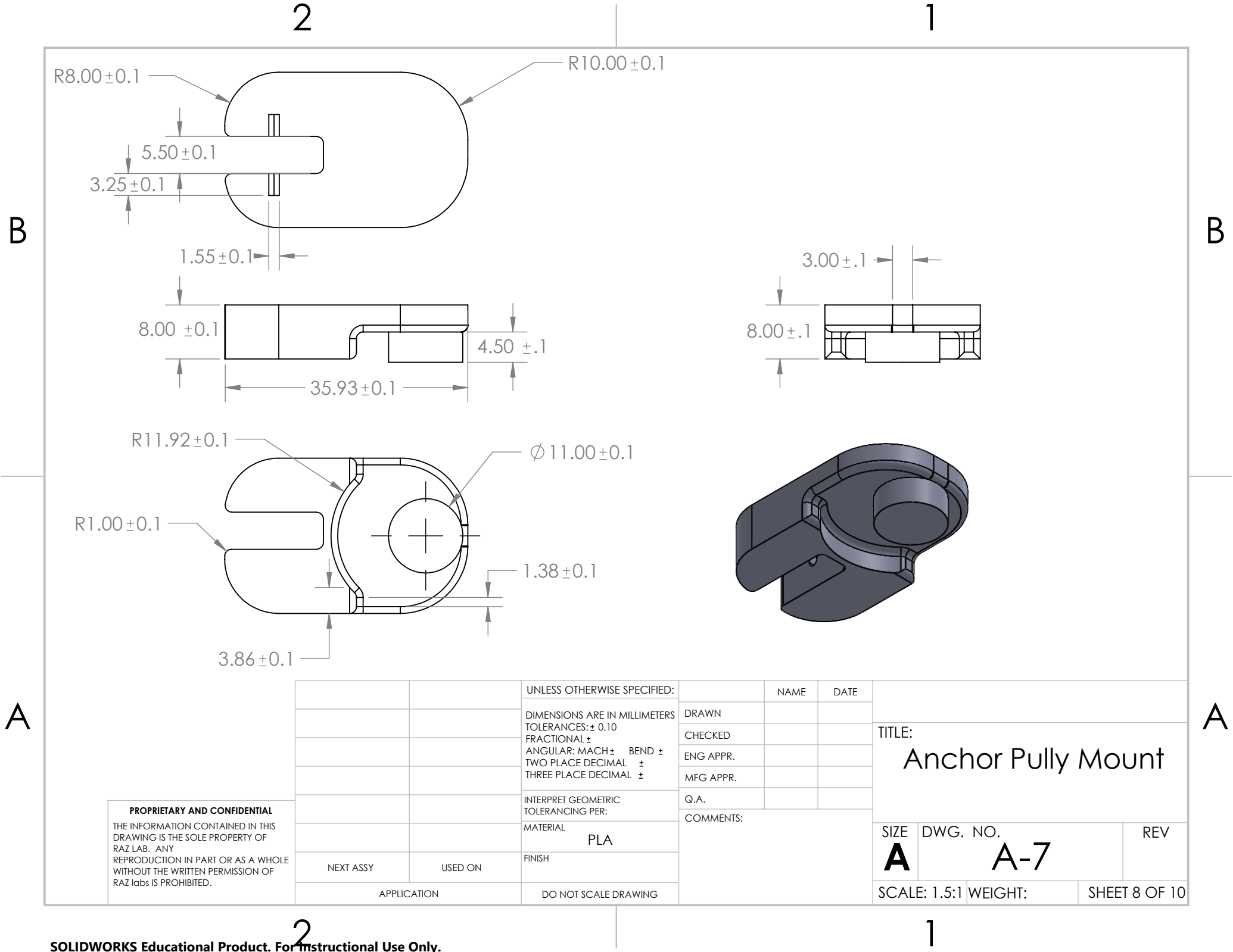
SIZE	DWG. NO.	REV
<b>A</b>	<b>A-3</b>	
SCALE: 1:1.5		WEIGHT:
SHEET 4 OF 10		











B

B

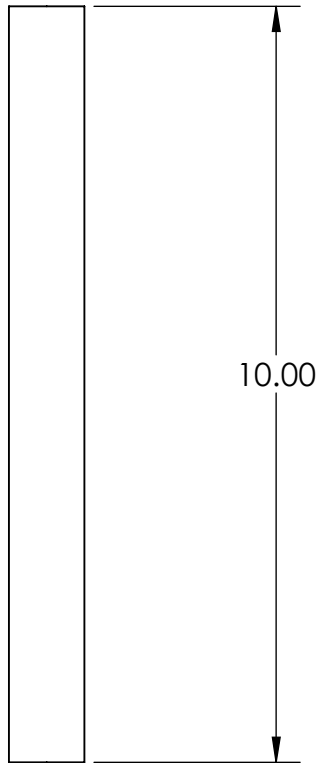
A

A

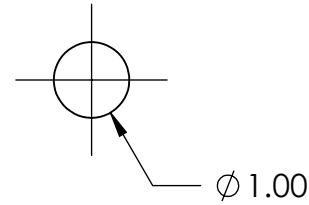
ISOMETRIC VIEW



FRONT VIEW



TOP VIEW



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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: <div>Idler Pulley Shaft</div>		
		DIMENSIONS ARE IN MILLIMETERS	DRAWN	JM	11/21/25			
		TOLERANCES: ±0.10mm	CHECKED					
		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ±    BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±				SIZE    DWG. NO.    REV <div>A    A-8</div>		
		THREE PLACE DECIMAL ±						
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.					
		MATERIAL	COMMENTS:					
		STEEL						
NEXT ASSY	USED ON	FINISH						
APPLICATION		DO NOT SCALE DRAWING				SCALE: 10:1	WEIGHT:	SHEET 9 OF 10

