

1

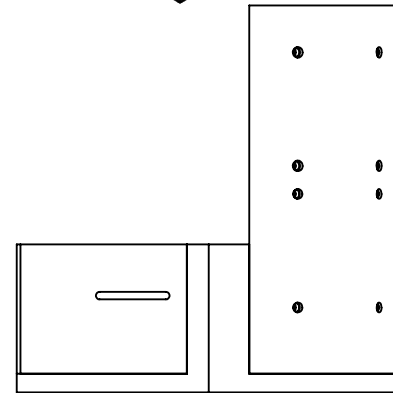
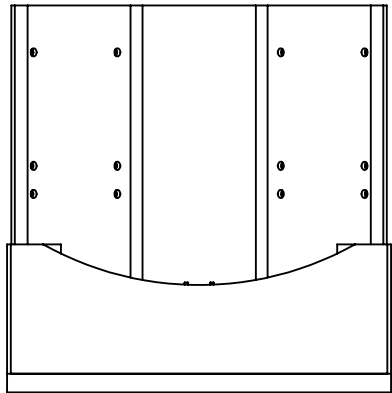
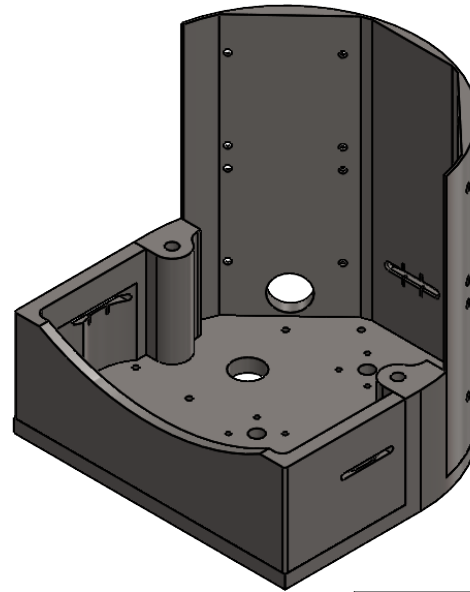
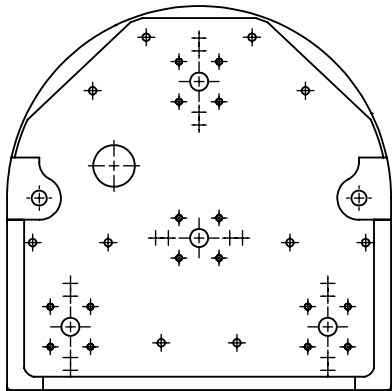
B



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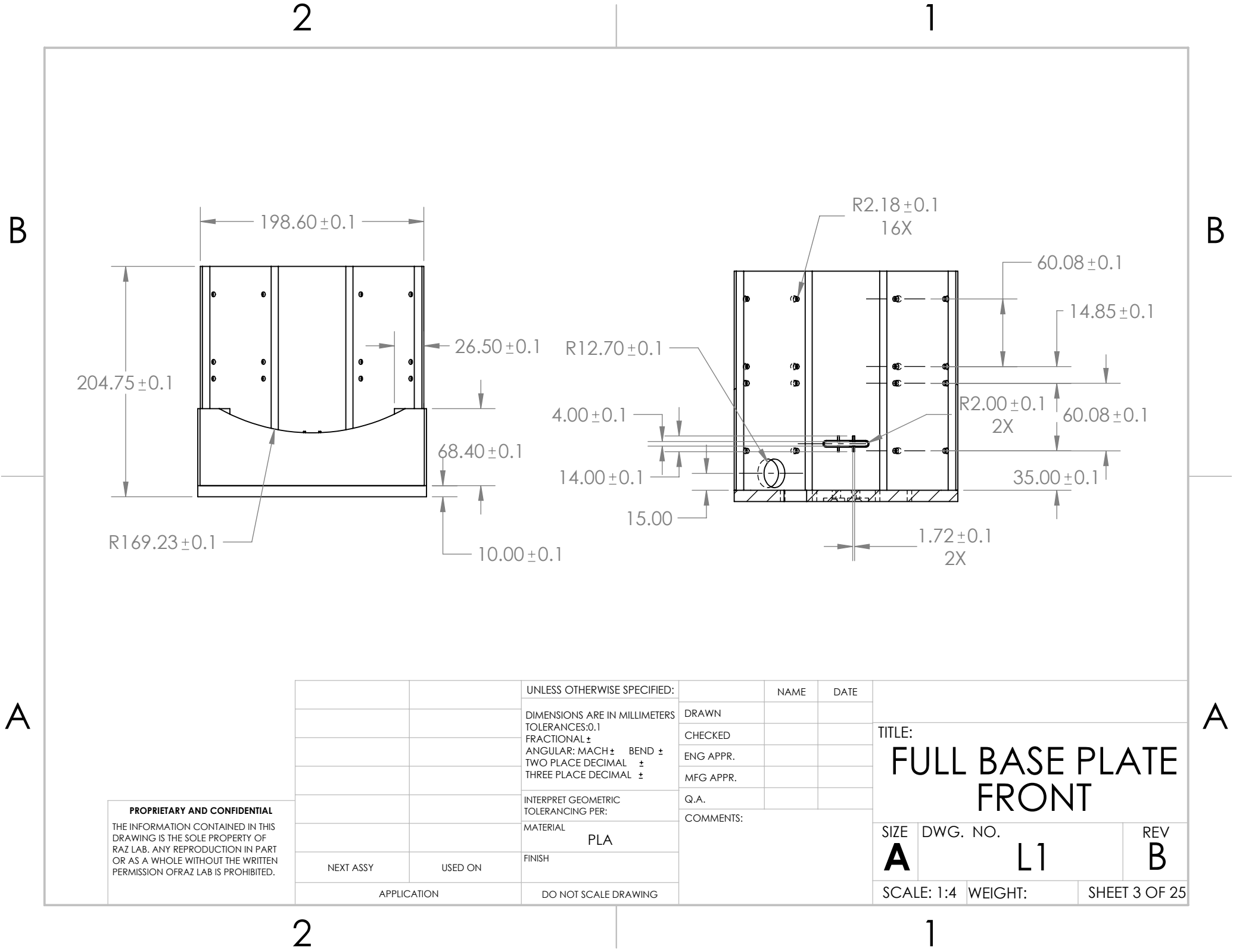
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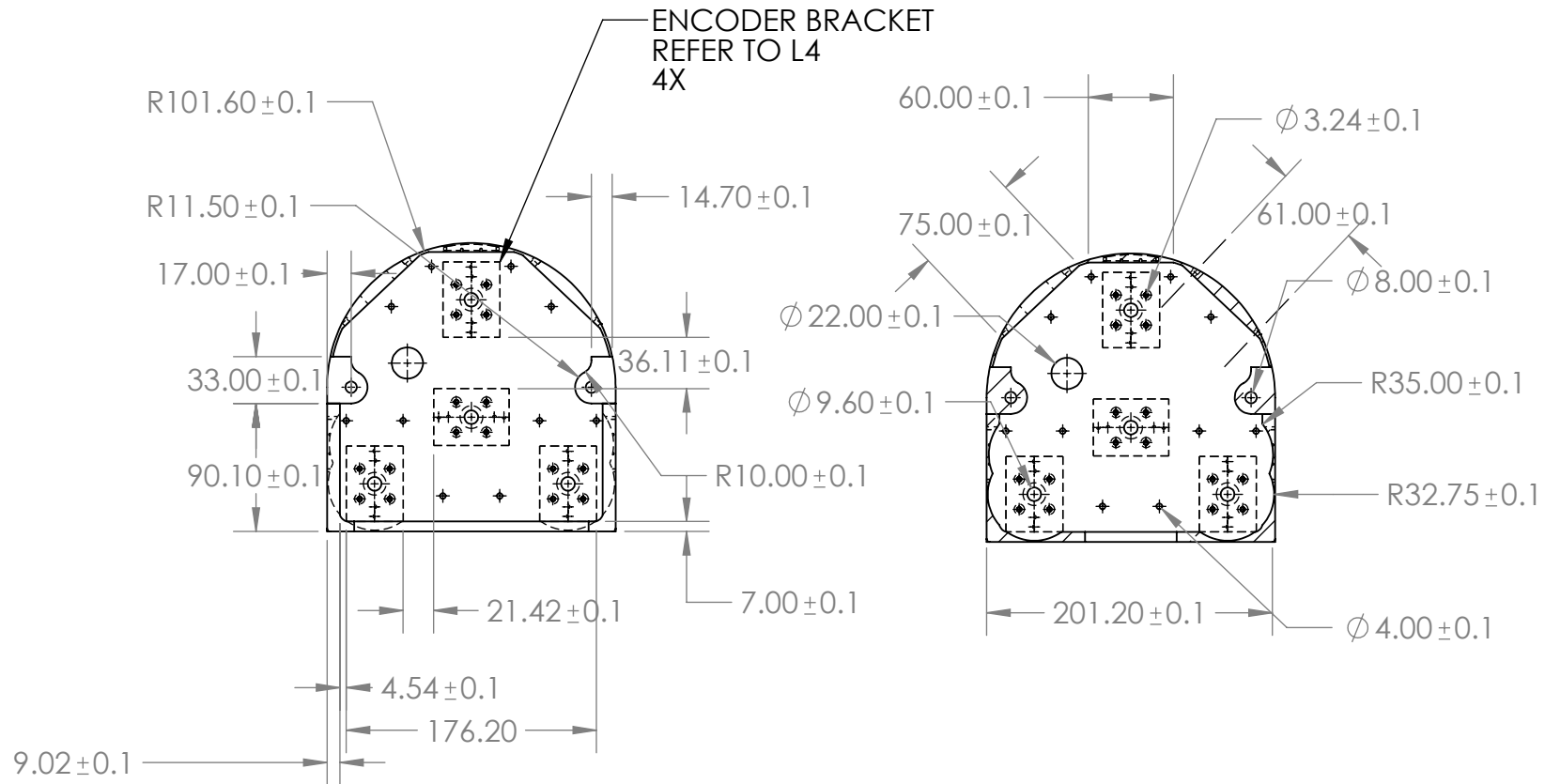
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|---|-------------|----------|--------------------------------------|-----------|------|------|--------------------------------------|------------|----------|---------|---------------|
| <div>PROPRIETARY AND CONFIDENTIAL</div> <div>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF RAZ LAB. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF RAZ LAB IS PROHIBITED.</div> | | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | TITLE: <div>FULL BASE PLATE</div> | | | | |
| | | | DIMENSIONS ARE IN MILLIMETERS | DRAWN | | | | | | | |
| | | | TOLERANCES:0.1 | CHECKED | | | | | | | |
| | | | FRACTIONAL ± | ENG APPR. | | | | | | | |
| | | | ANGULAR: MACH ± BEND ± | MFG APPR. | | | | | | | |
| | | | TWO PLACE DECIMAL ± | Q.A. | | | | | | | |
| | | | THREE PLACE DECIMAL ± | COMMENTS: | | | | | | | |
| | | | INTERPRET GEOMETRIC TOLERANCING PER: | | | | SIZE | DWG. NO. | REV | | |
| | | MATERIAL | PLA | | | | A | L1 | A | | |
| | | FINISH | | | | | | | | | |
| | NEXT ASSY | USED ON | | | | | | | | | |
| | APPLICATION | | DO NOT SCALE DRAWING | | | | | SCALE: 1:4 | | WEIGHT: | SHEET 2 OF 25 |

SCALE: 1:4 WEIGHT: SHEET 2 OF 25



B

B



A

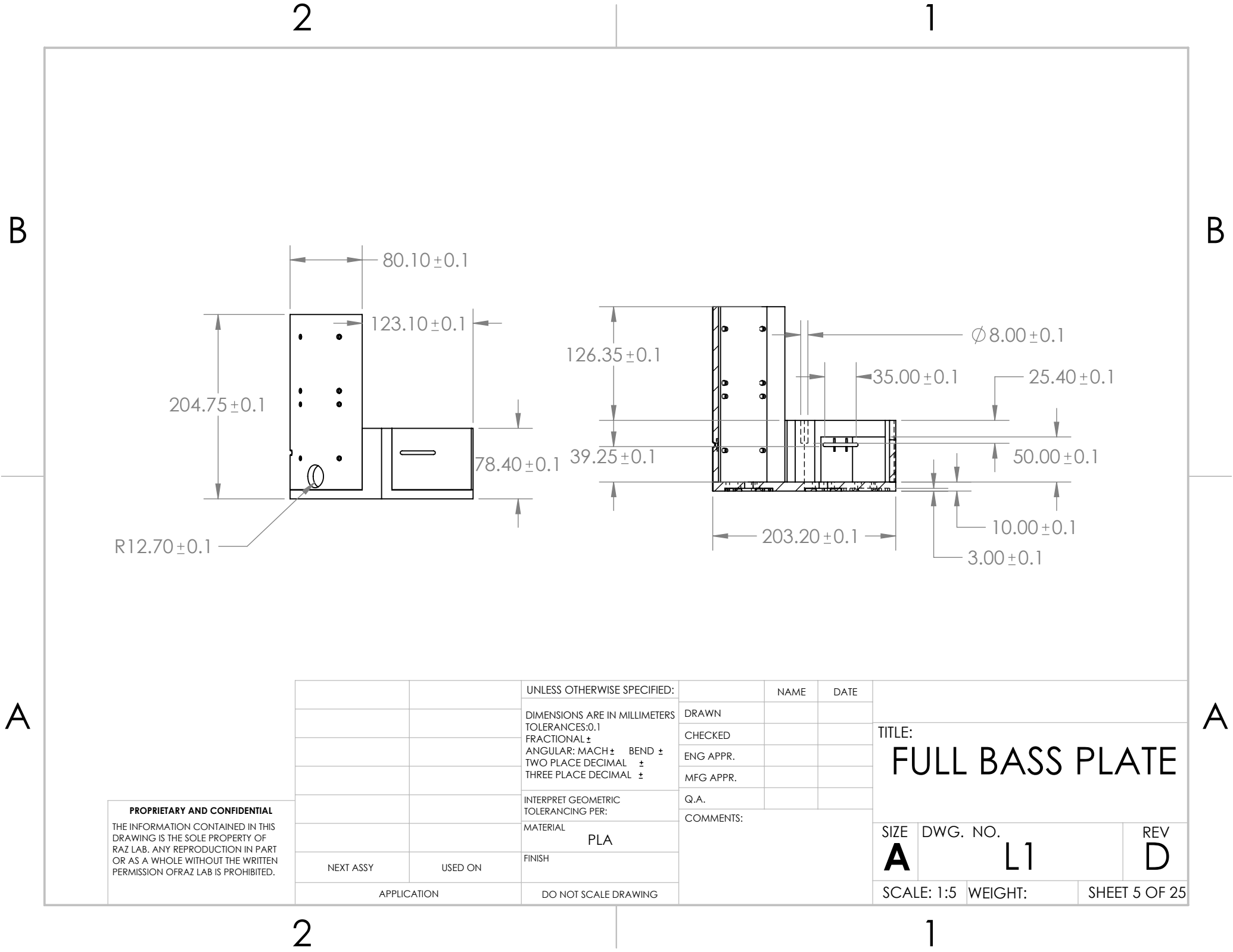
A

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| | | | | | | | | |
|--|--|-------------------------------|--|-----------|------|---|--|--|
| | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | TITLE: <div>FULL BASE PLATE</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 </div> | | |

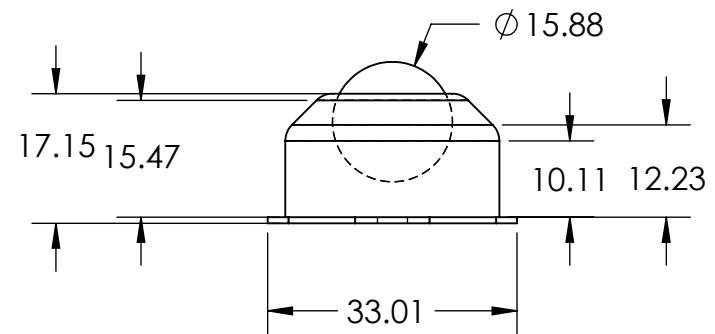
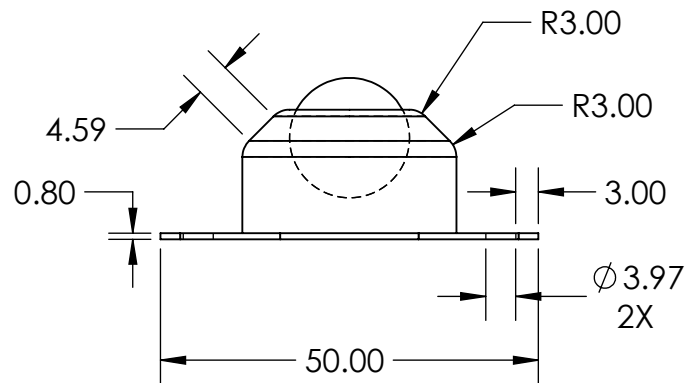
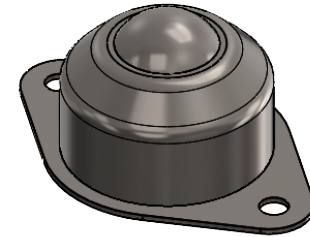
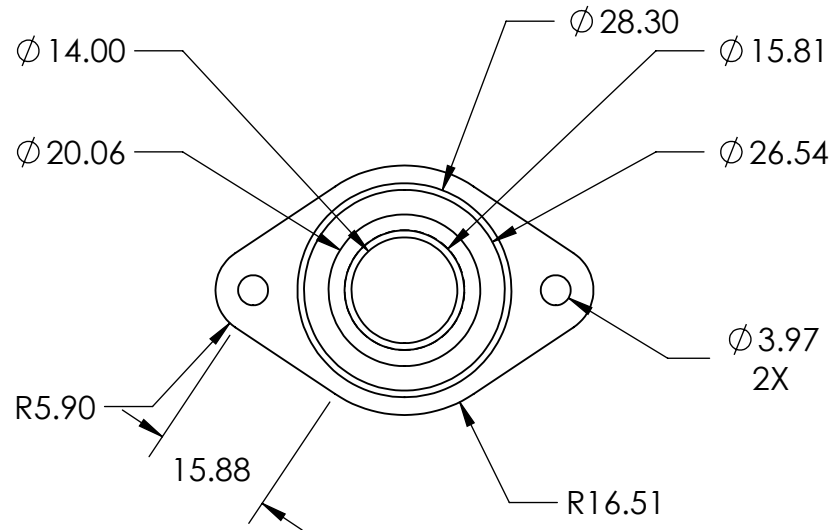
2

1



B

B



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NEXT ASSY

USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED:

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

INTERPRET GEOMETRIC
TOLERANCING PER:MATERIAL
STEEL

FINISH

DO NOT SCALE DRAWING

NAME

DATE

DRAWN

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:

TITLE:

WHEEL

SIZE

A

DWG. NO.

L2

REV

SCALE: 1:1

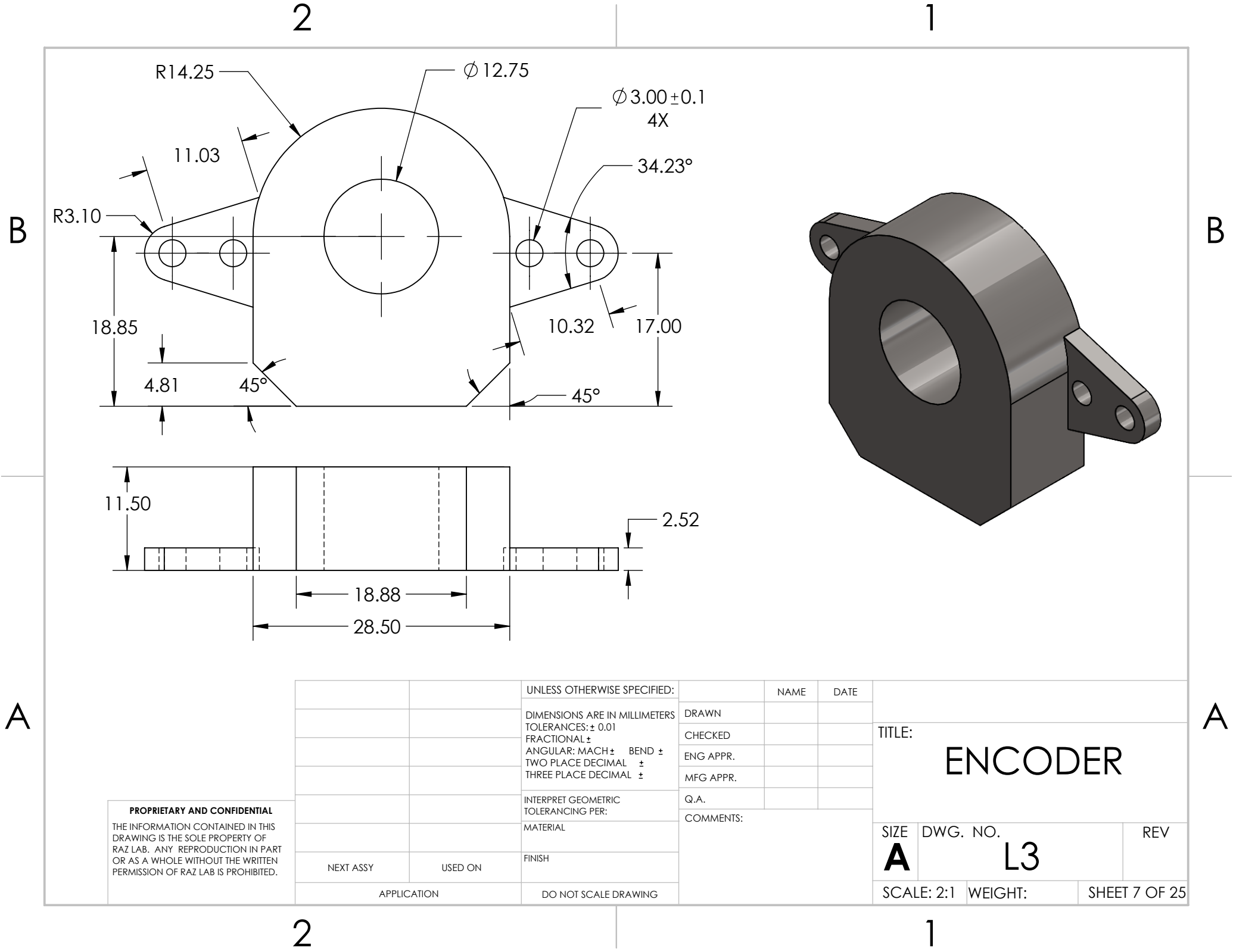
WEIGHT:

SHEET 6 OF 25

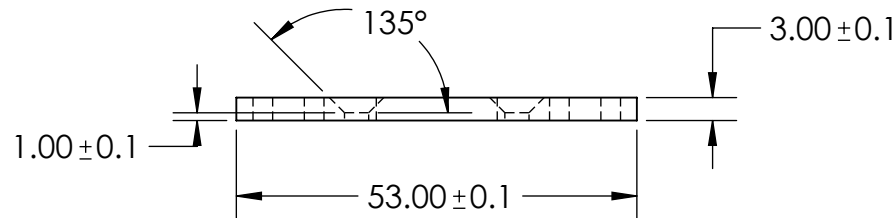
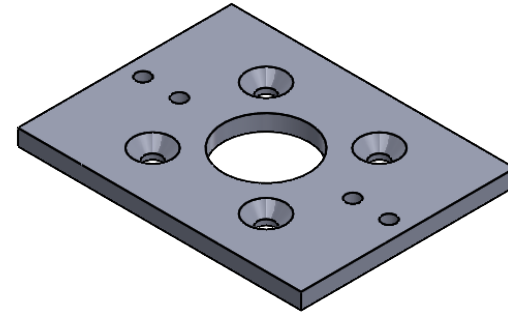
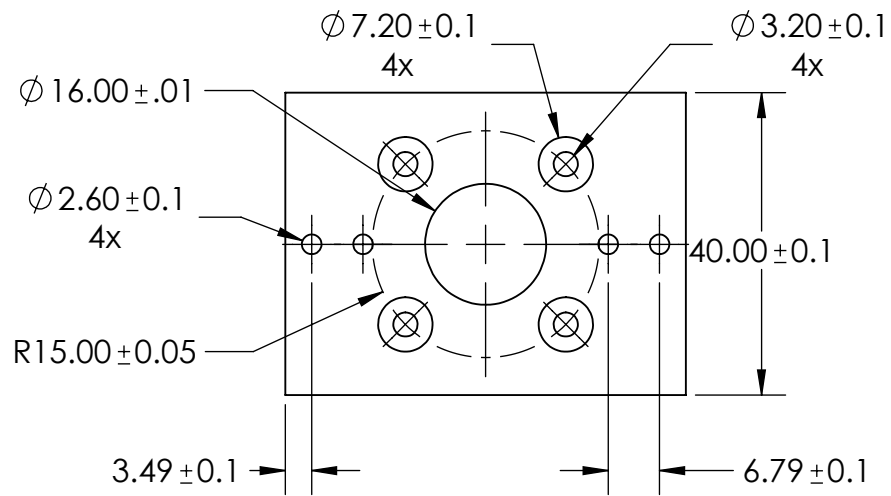
A

2

1



B



B

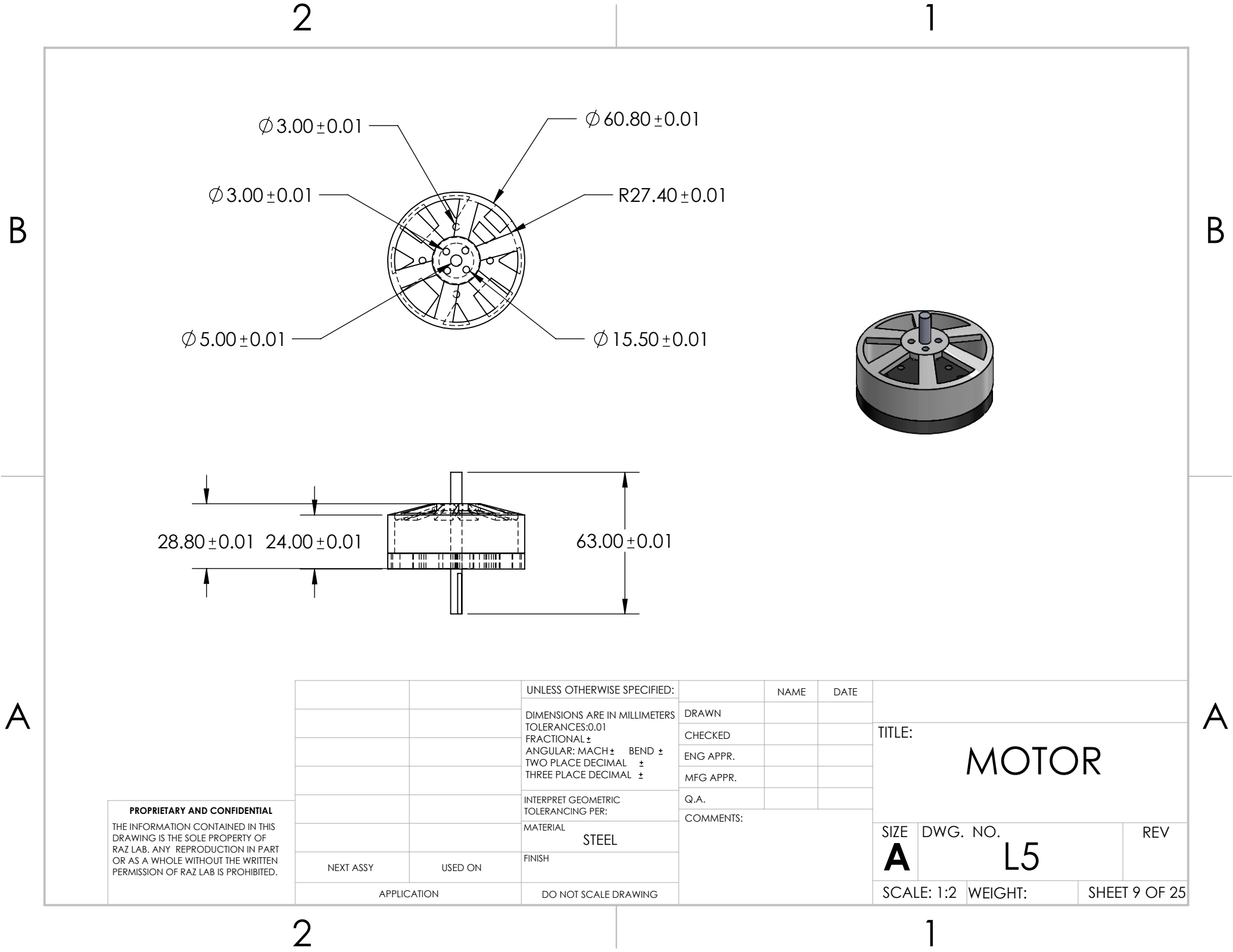
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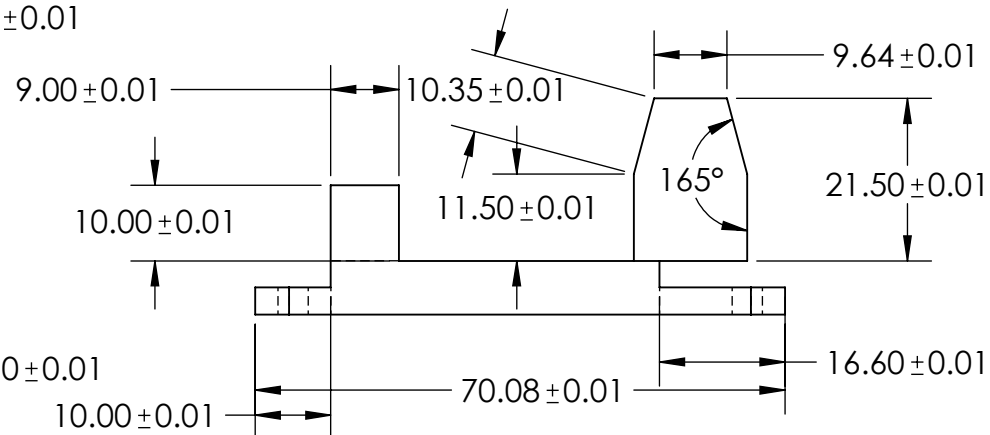
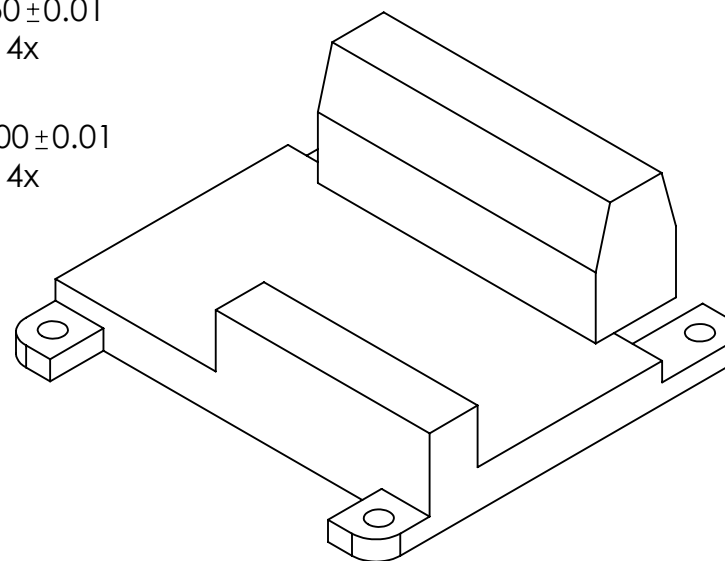
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|--|-------------|--------------------------------------|----------------------|------|------|--------------------------------------|-----------|---------------|
| | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | TITLE: ENCODER BRACKET | | |
| | | DIMENSIONS ARE IN MILLIMETERS | DRAWN | | | | | |
| | | TOLERANCES: ± 0.10 | 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: | | | | L4 | |
| | | INTERPRET GEOMETRIC TOLERANCING PER: | | | | A | | |
| | | MATERIAL | | | | SCALE: 1:1 | WEIGHT: | SHEET 8 OF 25 |
| | | FINISH | | | | | | |
| | NEXT ASSY | USED ON | | | | | | |
| | APPLICATION | | DO NOT SCALE DRAWING | | | | | |

2

1

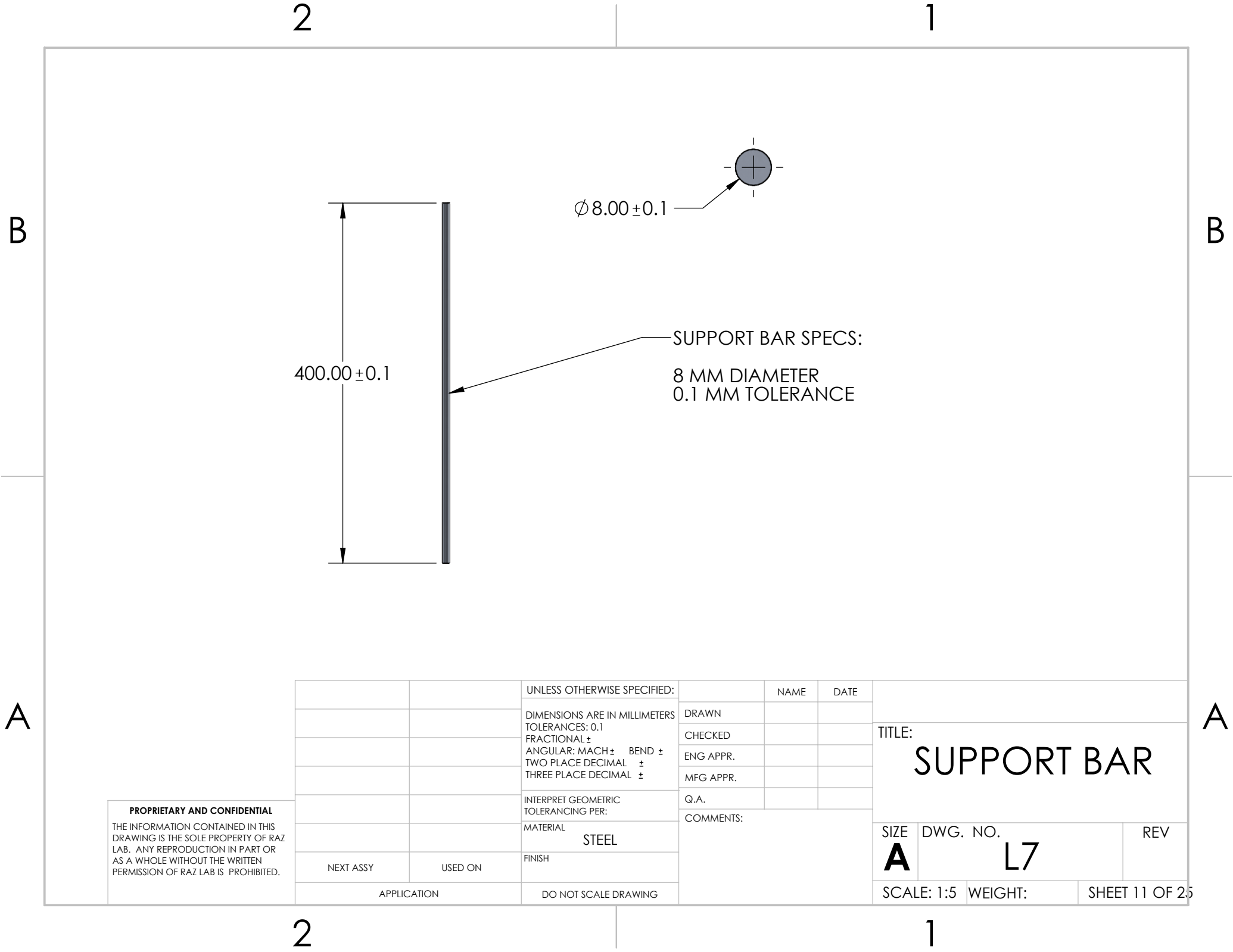


1



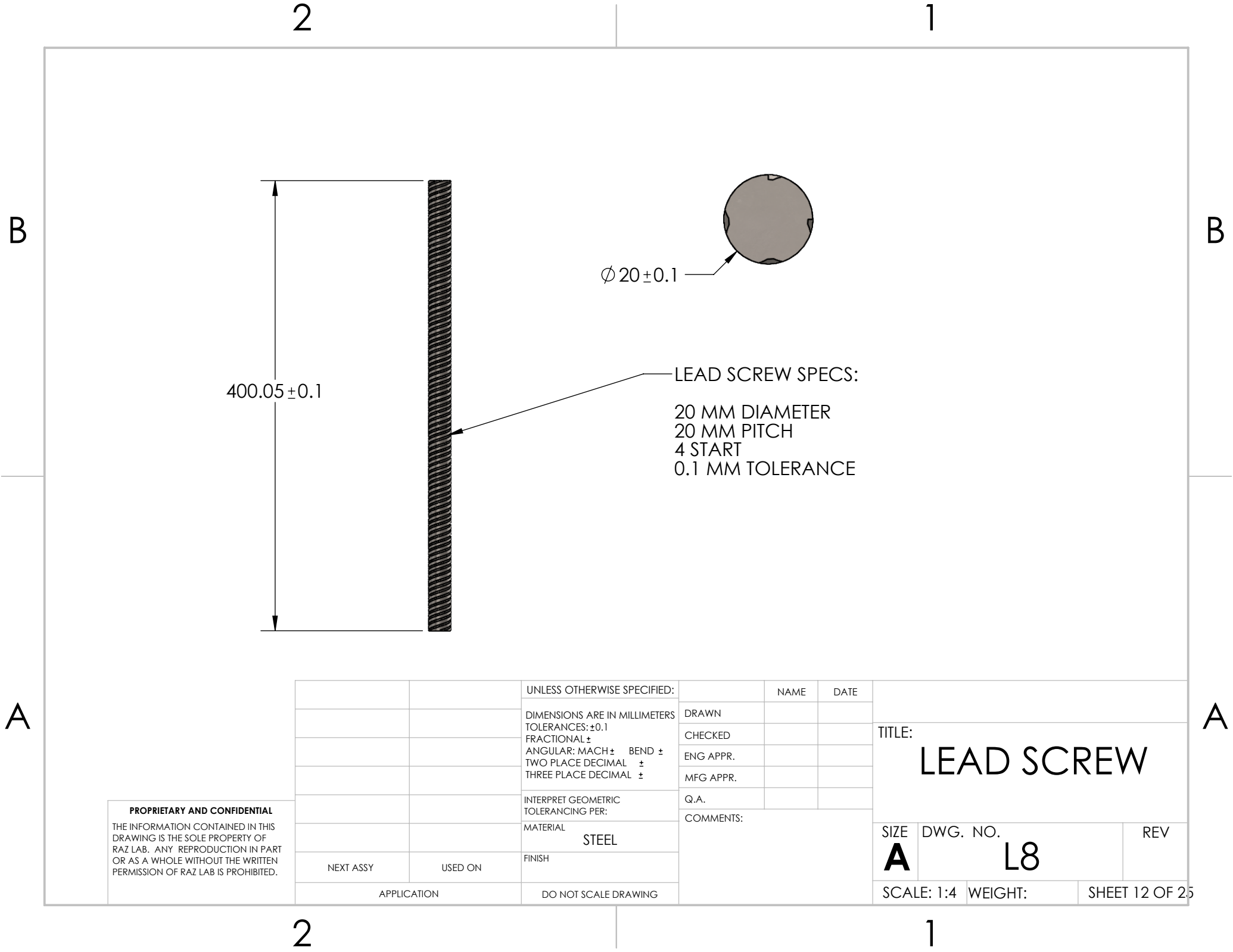
SHEET 10 OF 25

1



| | | | | | | | | | |
|---|---------|----------------------|-------------------------------|--------------------------------------|------|------|----------------------------------|-----------|--|
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| | | | DIMENSIONS ARE IN MILLIMETERS | DRAWN | | | | | |
| | | | TOLERANCES: 0.1 | CHECKED | | | | | |
| | | | FRACTIONAL ± | ENG APPR. | | | | | |
| | | | ANGULAR: MACH ± BEND ± | MFG APPR. | | | | | |
| | | | TWO PLACE DECIMAL ± | | | | | | |
| | | | THREE PLACE DECIMAL ± | | | | | | |
| | | | | INTERPRET GEOMETRIC TOLERANCING PER: | Q.A. | | | COMMENTS: | |
| | | MATERIAL | STEEL | | | | | | |
| NEXT ASSY | USED ON | FINISH | | | | | | | |
| APPLICATION | | DO NOT SCALE DRAWING | | | | | | | |

| | | |
|------------|----------|----------------|
| SIZE | DWG. NO. | REV |
| A | L7 | |
| SCALE: 1:5 | WEIGHT: | SHEET 11 OF 25 |

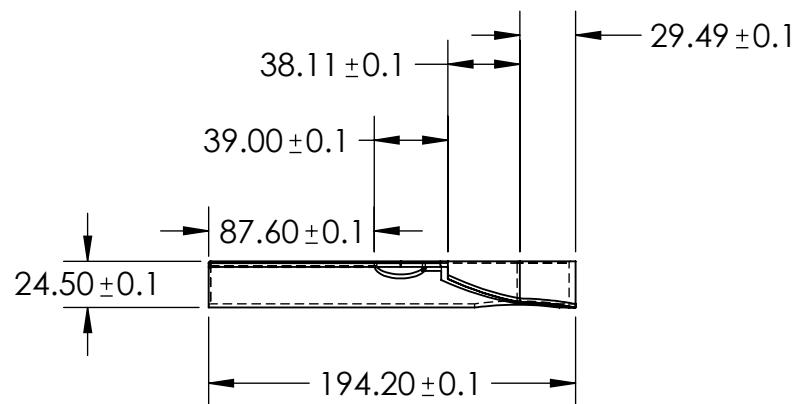
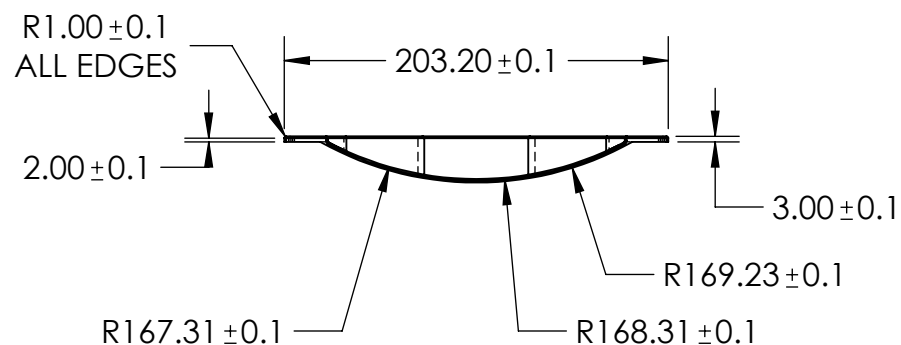
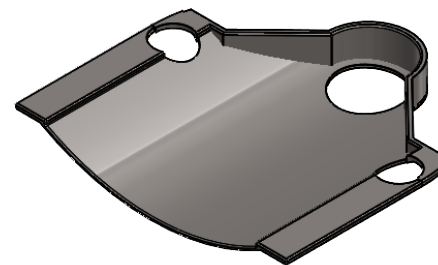
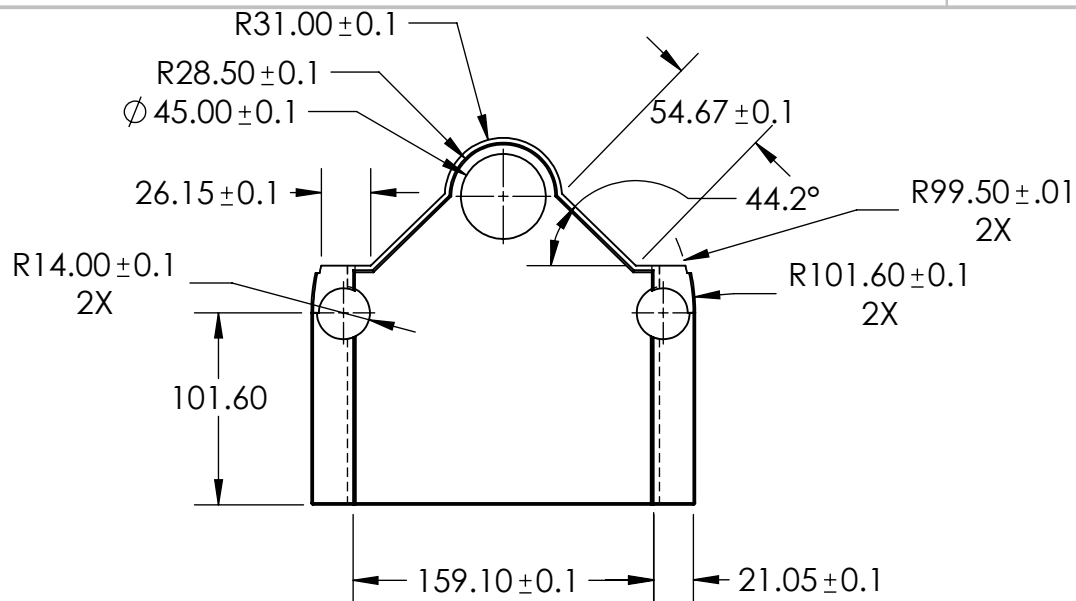


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| | | | | | | |
|-------------|---------|-------------------------------|-----------|------|------|--|
| | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | |
| | | DIMENSIONS ARE IN MILLIMETERS | DRAWN | | | |
| | | TOLERANCES: ±0.1 | CHECKED | | | |
| | | FRACTIONAL ± | ENG APPR. | | | |
| | | ANGULAR: MACH ± BEND ± | MFG APPR. | | | |
| | | TWO PLACE DECIMAL ± | COMMENTS: | | | |
| | | THREE PLACE DECIMAL ± | | | | |
| | | INTERPRET GEOMETRIC | | Q.A. | | |
| | | TOLERANCING PER: | | | | |
| | | MATERIAL | | | | |
| | | STEEL | | | | |
| NEXT ASSY | USED ON | FINISH | | | | |
| APPLICATION | | DO NOT SCALE DRAWING | | | | |

| | | | | | |
|------------|----------|---------|--|----------------|--|
| 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: | | NAME | DATE |
| | | DIMENSIONS ARE IN MILLIMETERS | DRAWN | | |
| | | TOLERANCES: ±0.1 | 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 | | | |
| NEXT ASSY | USED ON | | | | |
| APPLICATION | | DO NOT SCALE DRAWING | | | |

TITLE:

LOWER COVER

SIZE

A

DWG. NO.

L9

REV

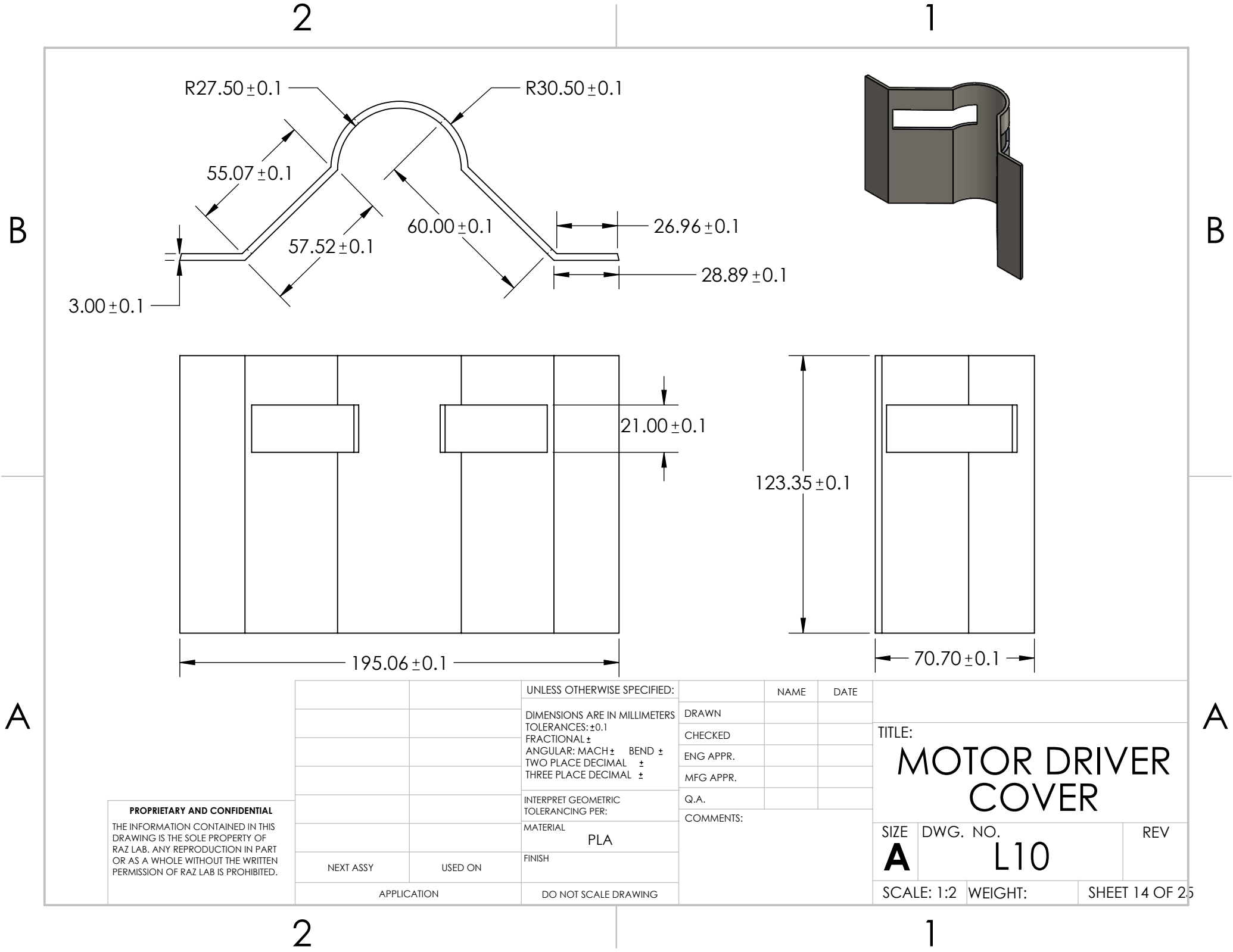
SCALE: 1:4

WEIGHT:

SHEET 13 OF 25

2

1



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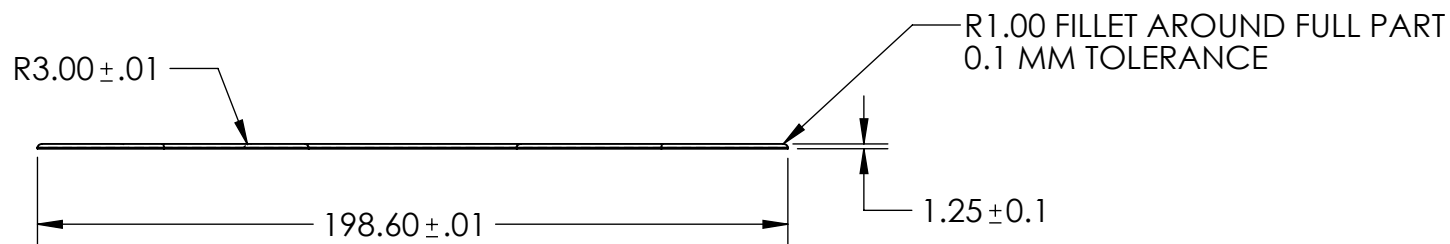
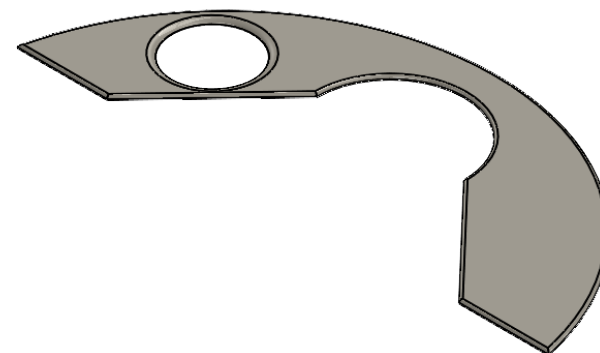
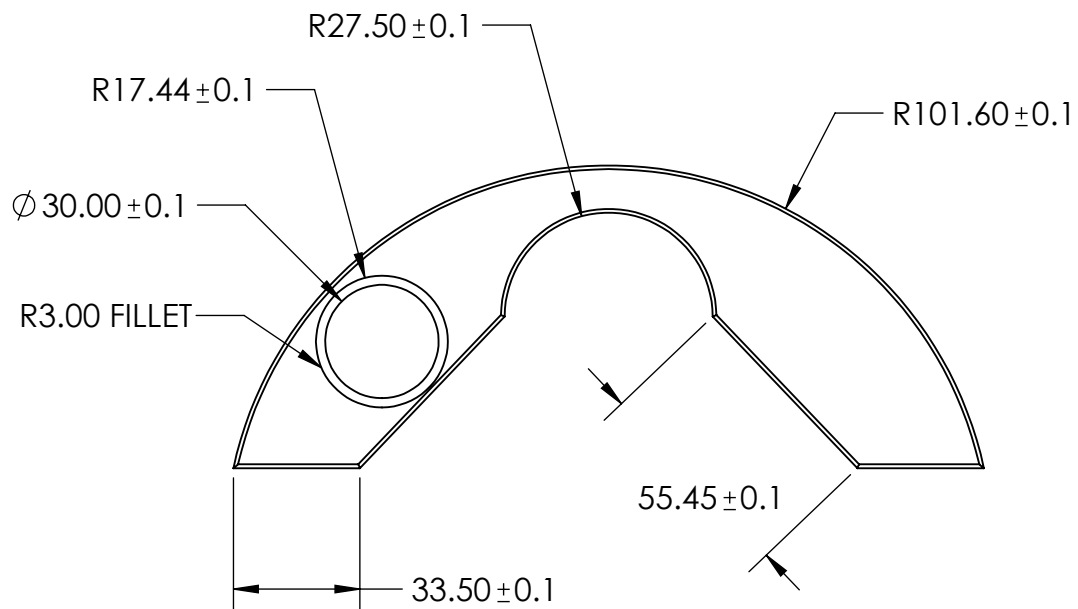
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|-------------|---------|--|
| | | UNLESS OTHERWISE SPECIFIED: |
| | | DIMENSIONS ARE IN MILLIMETERS TOLERANCES: ±0.1 FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± |
| | | INTERPRET GEOMETRIC TOLERANCING PER: |
| | |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

TITLE:
MOTOR DRIVER COVER

| | | |
|----------|------------|-----|
| SIZE | DWG. NO. | REV |
| A | L10 | |

B

B



A

A

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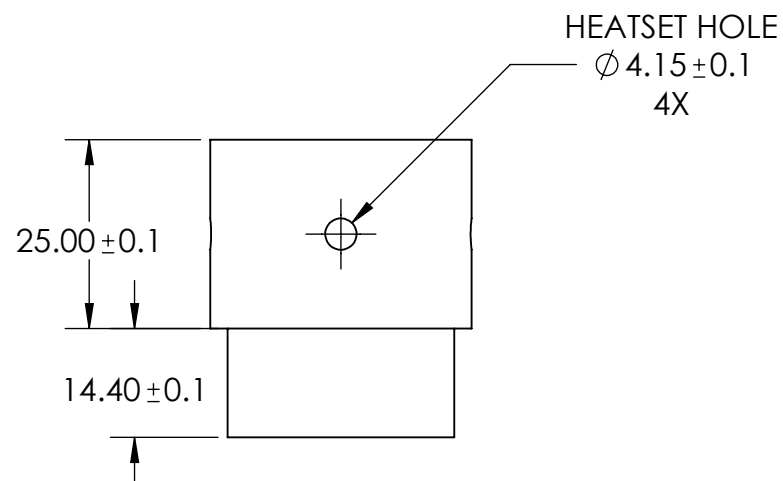
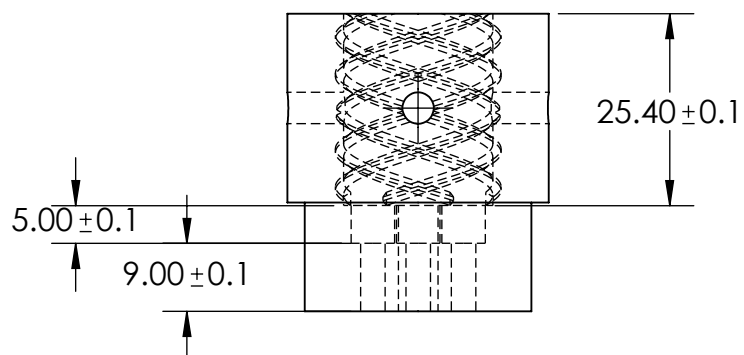
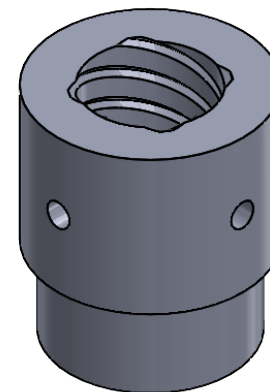
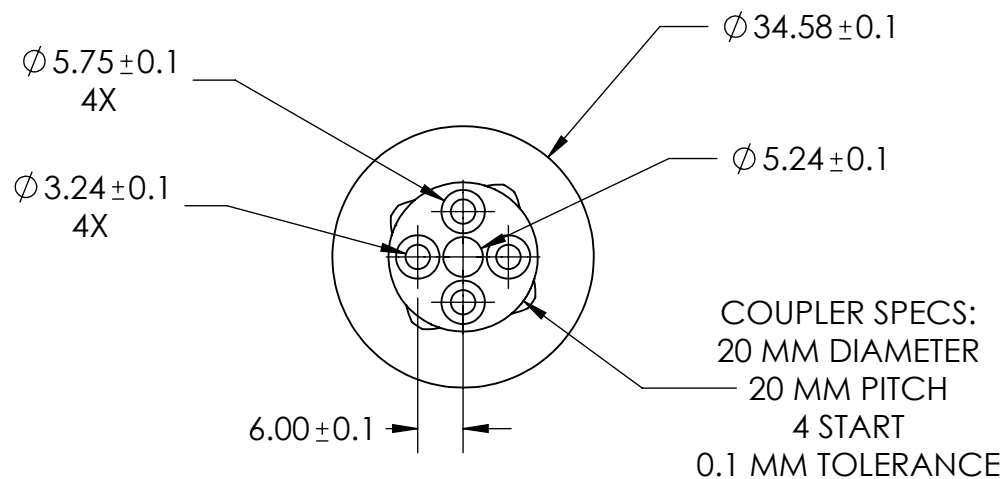
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|-------------|---------|--------------------------------------|-----------|------|------|--|--|--|--|
| | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | TITLE: <div>REAR WALL LID</div> | | | |
| | | DIMENSIONS ARE IN IMILLIMETERS | DRAWN | | | | | | |
| | | 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 | COMMENTS: | | | | | | |
| | | PLA | | | | | | | |
| | | FINISH | | | | SCALE: 1:2 WEIGHT: SHEET 15 OF 25 | | | |
| NEXT ASSY | USED ON | | | | | | | | |
| APPLICATION | | DO NOT SCALE DRAWING | | | | | | | |

2

1

B

B



A

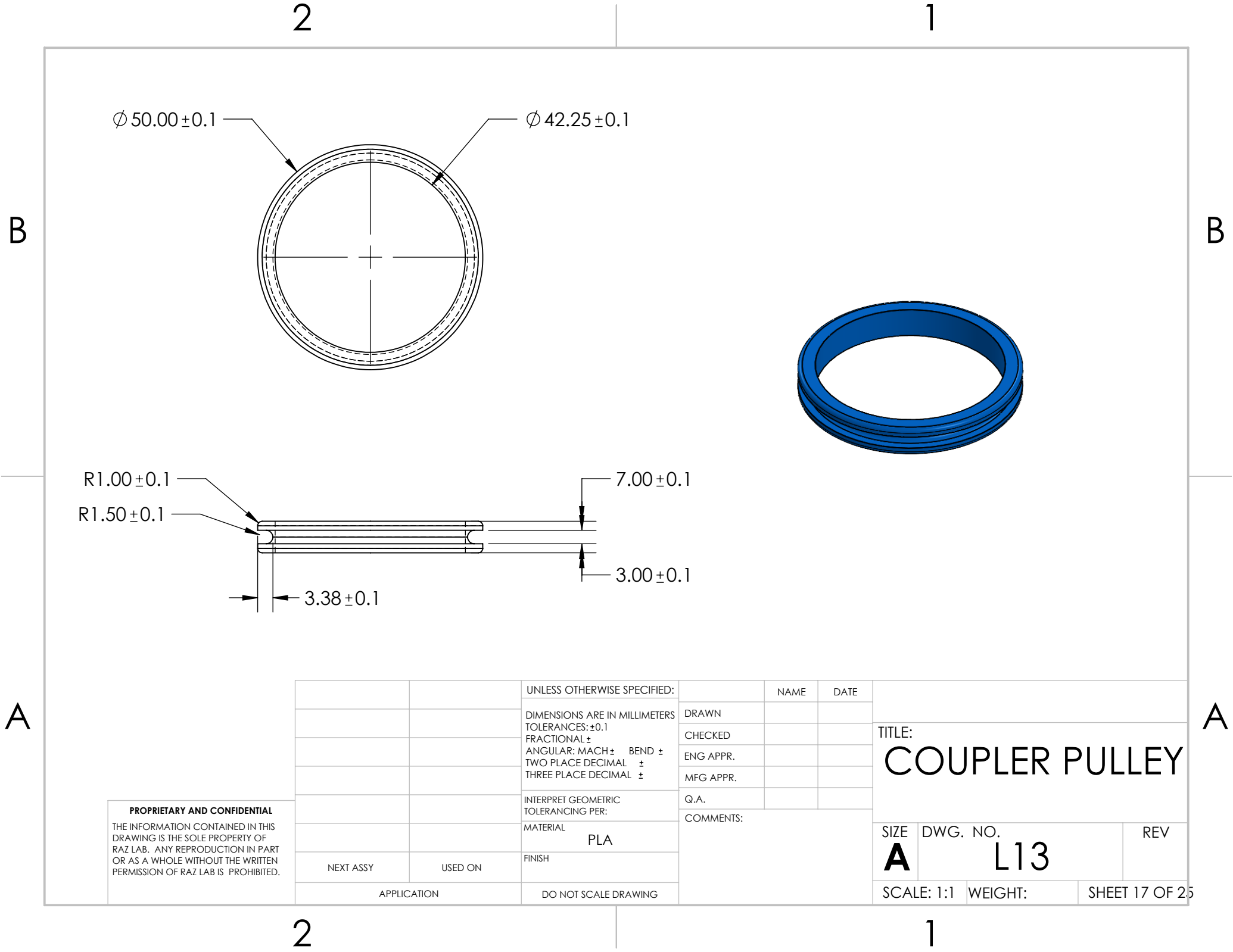
A

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| | | | | | | | | |
|-------------|---------|--------------------------------------|-----------|------|------|--------------------------|----------|----------------|
| | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | TITLE: COUPLER | | |
| | | 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: | | | | A | L12 |
| | | INTERPRET GEOMETRIC TOLERANCING PER: | | | | SCALE: 1:1 | WEIGHT: | SHEET 16 OF 25 |
| | | MATERIAL | | | | | | |
| | | PLA | | | | | | |
| | | FINISH | | | | | | |
| NEXT ASSY | USED ON | | | | | | | |
| APPLICATION | | DO NOT SCALE DRAWING | | | | | | |

2

1



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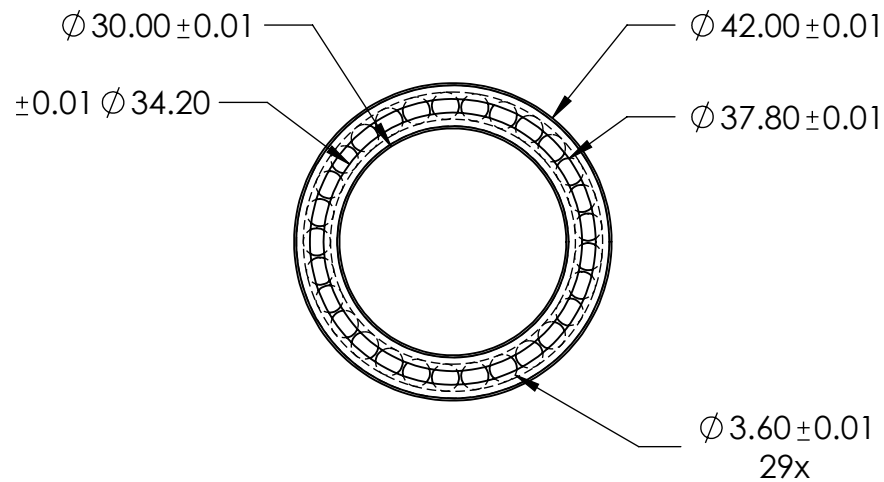
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|-------------|---------|--------------------------------------|
| | | UNLESS OTHERWISE SPECIFIED: |
| | | DIMENSIONS ARE IN MILLIMETERS |
| | | TOLERANCES: ± 0.1 |
| | | FRACTIONAL \pm |
| | | ANGULAR: MACH \pm BEND \pm |
| | | TWO PLACE DECIMAL \pm |
| | | 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: | | |

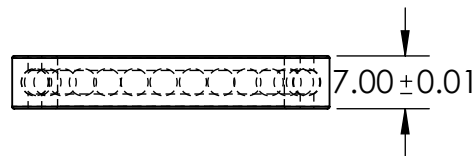
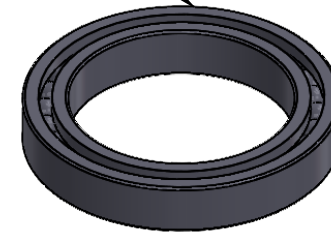
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|----------------|----------|---------|----------------|
| TITLE: | | | |
| COUPLER PULLEY | | | |
| SIZE | DWG. NO. | | REV |
| A | L13 | | |
| SCALE: 1:1 | | WEIGHT: | SHEET 17 OF 25 |

B

B



BEARING MODEL NUMBER:
6806



A

A

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BEARING MODEL NUMBER:
6806

NEXT ASSY

USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MILLIMETERS
TOLERANCES: ± 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

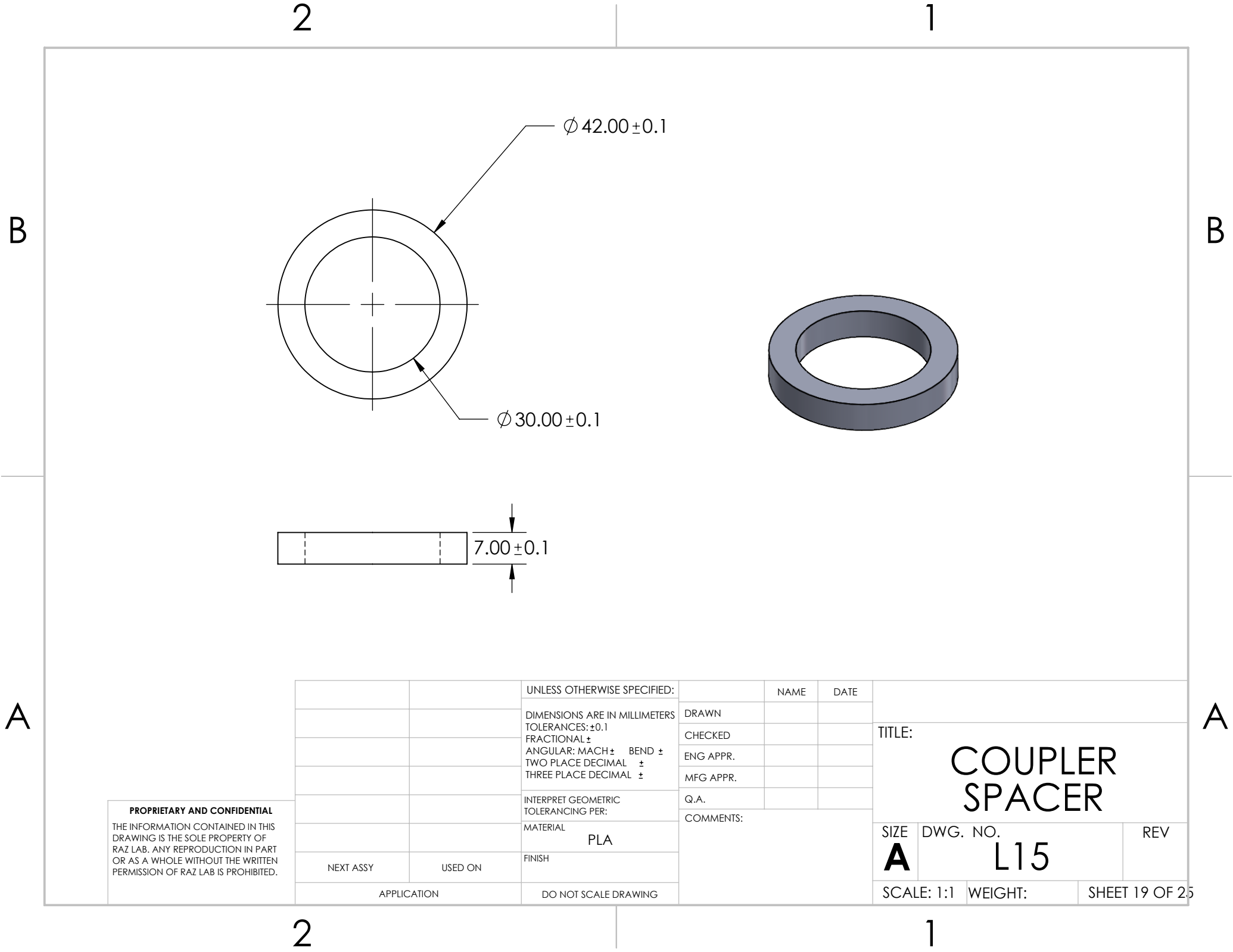
SCALE: 1:1

WEIGHT:

SHEET 18 OF 25

2

1



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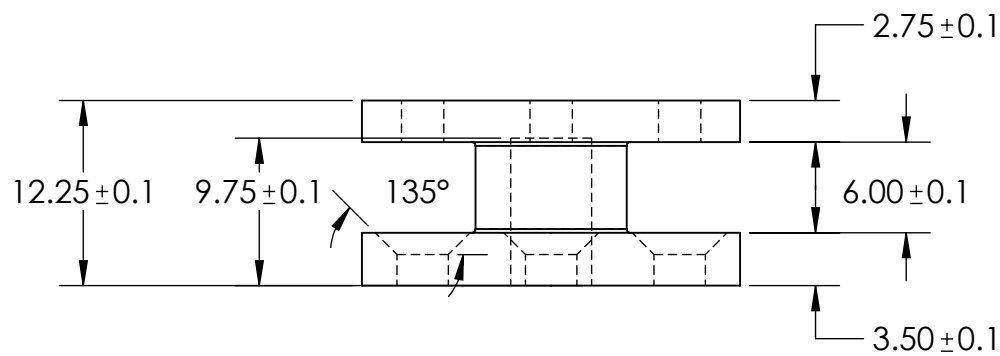
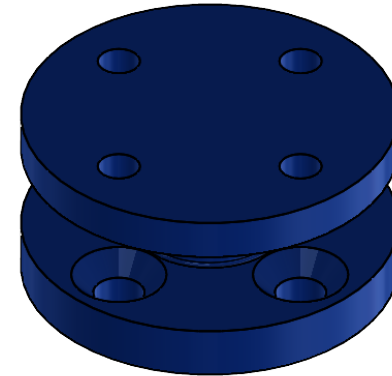
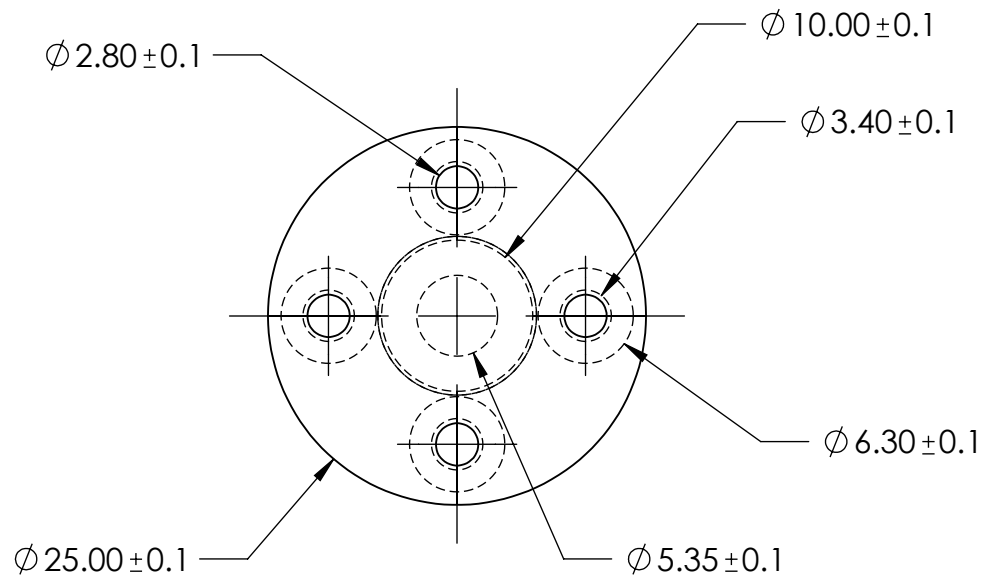
| | | |
|-------------|---------|---|
| | | UNLESS OTHERWISE SPECIFIED: |
| | | DIMENSIONS ARE IN MILLIMETERS |
| | | TOLERANCES: ± 0.1 |
| | | FRACTIONAL \pm |
| | | ANGULAR: MACH \pm BEND \pm |
| | | TWO PLACE DECIMAL \pm |
| | | THREE PLACE DECIMAL \pm |
| | | INTERPRET GEOMETRIC TOLERANCING PER: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

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

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

B

B



A

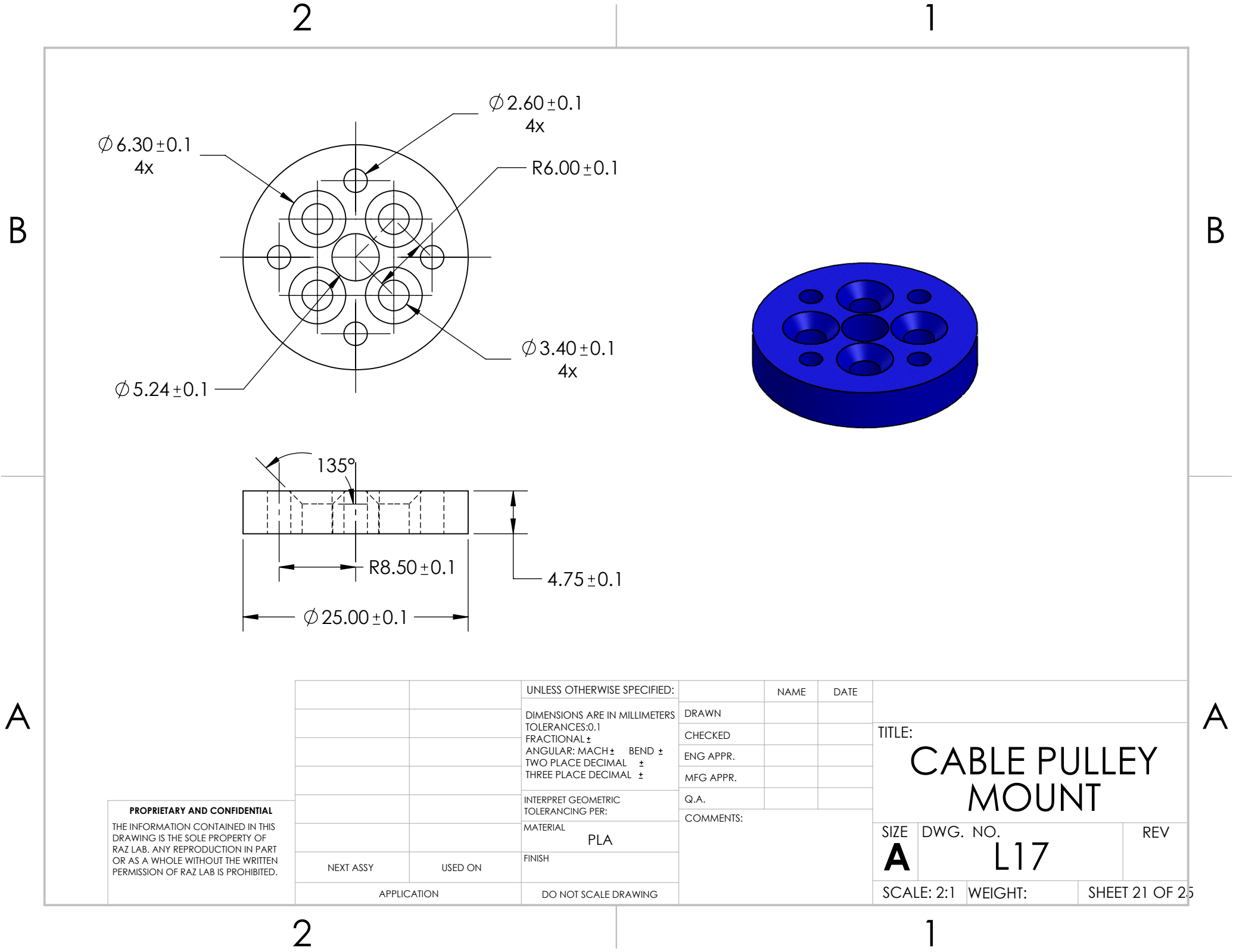
A

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AS A WHOLE WITHOUT THE WRITTEN
PERMISSION OF RAZ LAB IS PROHIBITED.

| | | | | | | | | | | | |
|-------------|---------|---|-----------|------|------|--|--|--|---|--|--|
| | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | TITLE: <div>CABLE PULLEY</div> | | | | | |
| | | DIMENSIONS ARE IN MILLIMETERS TOLERANCES:0.1 FRACTIONAL ± ANGULAR: MACH± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± | DRAWN | | | | | | | | |
| | | | CHECKED | | | | | | | | |
| | | | ENG APPR. | | | | | | | | |
| | | | MFG APPR. | | | | | | | | |
| | | INTERPRET GEOMETRIC TOLERANCING PER: | Q.A. | | | SIZE DWG. NO. REV <div>A L16</div> | | | | | |
| | | MATERIAL <div>PLA</div> | COMMENTS: | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| NEXT ASSY | USED ON | FINISH | | | | | | | SCALE: 2:1 WEIGHT: SHEET 20 OF 25 | | |
| APPLICATION | | DO NOT SCALE DRAWING | | | | | | | | | |

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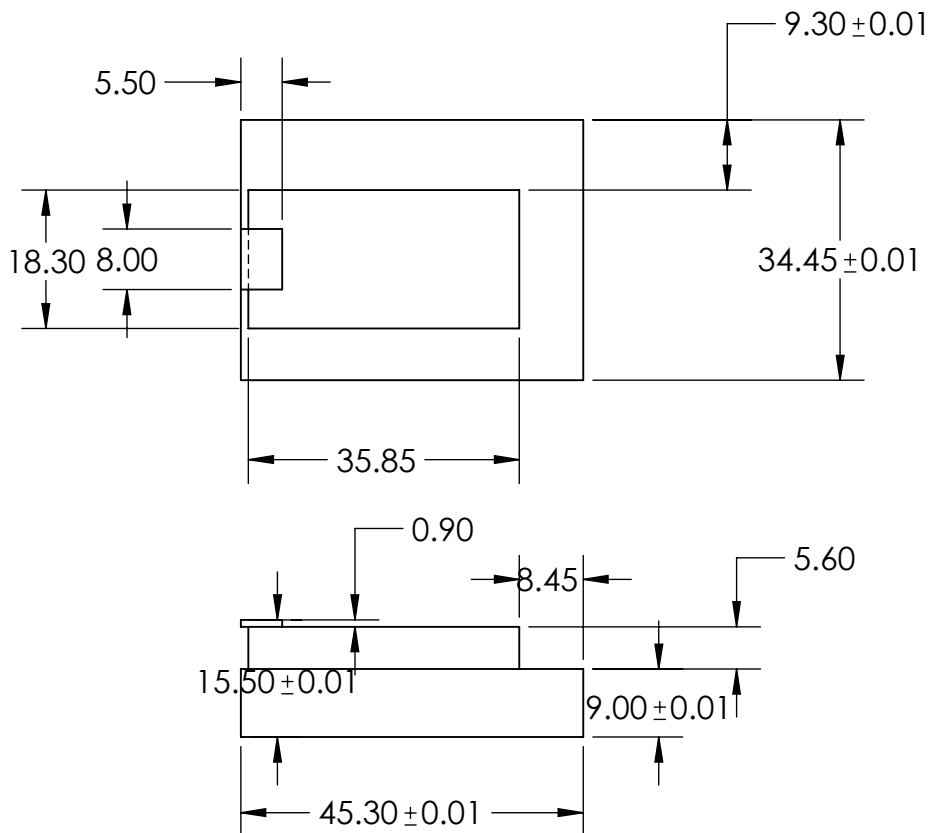
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| | | |
|-------------|---------|--------------------------------------|
| | | UNLESS OTHERWISE SPECIFIED: |
| | | DIMENSIONS ARE IN MILLIMETERS |
| | | TOLERANCES:0.1 |
| | | FRACTIONAL \pm |
| | | ANGULAR: MACH \pm BEND \pm |
| | | TWO PLACE DECIMAL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

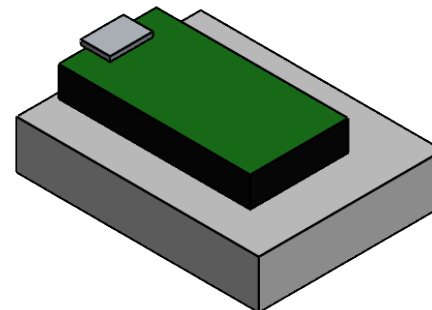
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|-----------|------|------|
| | NAME | DATE |
| DRAWN | | |
| CHECKED | | |
| ENG APPR. | | |
| MFG APPR. | | |
| Q.A. | | |
| COMMENTS: | | |

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

B



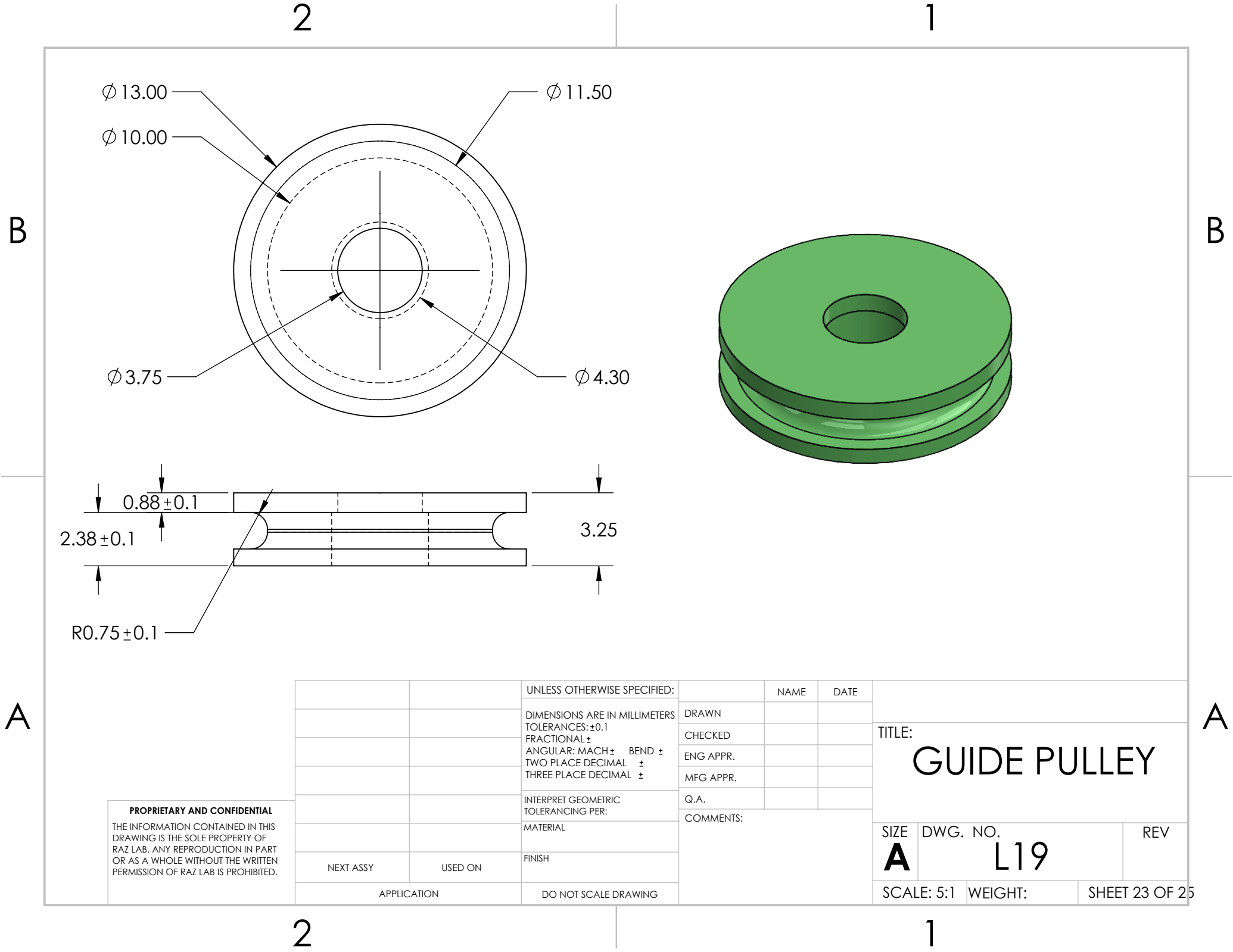
B



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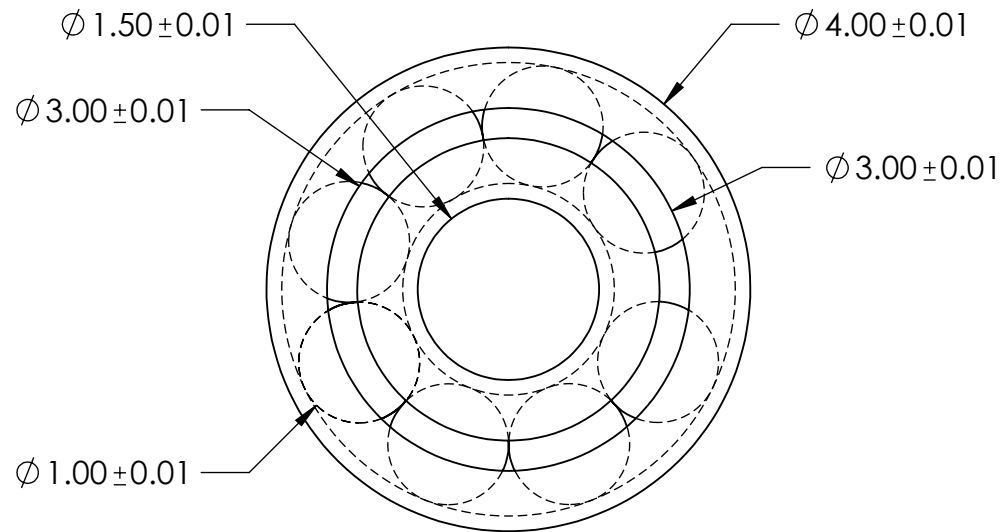
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|---|-------------|--------------------------------------|-------------------------------|-----------|------|------|-----------------------------|------------|-----|
| PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF RAZ LAB. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF RAZ LAB IS PROHIBITED. | | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | TITLE: TEENSY | | |
| | | | 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: | | | | | SIZE | DWG. NO. | REV |
| | | MATERIAL | | | | | A | L18 | |
| NEXT ASSY | USED ON | FINISH | | | | | SCALE: 1:1 | | |
| | APPLICATION | | DO NOT SCALE DRAWING | | | | | | |

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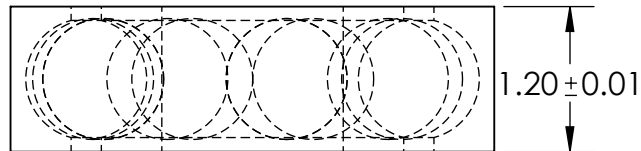
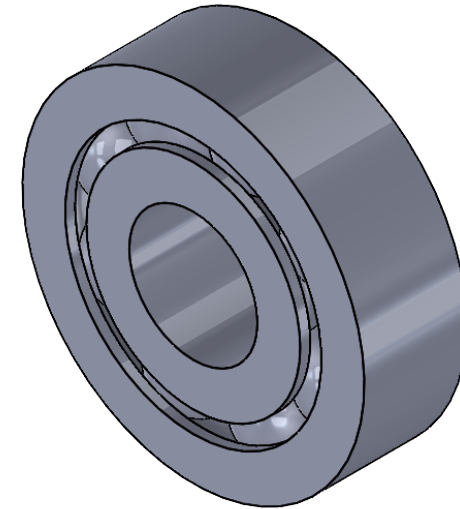


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BEARING MODEL:
S681X



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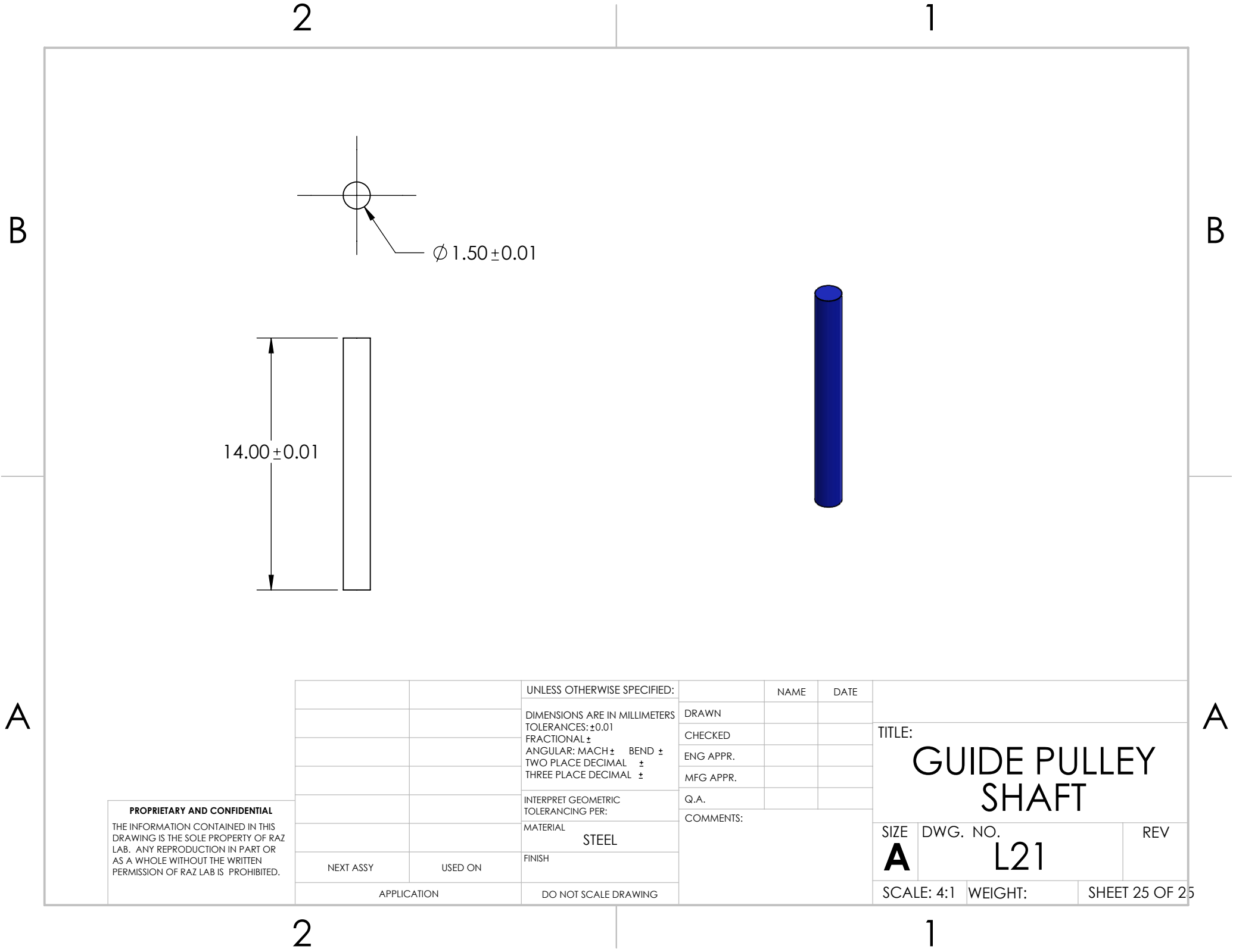
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|--|-------------|---|----------------------|------|------|---|----------|----------------|
| | | UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | TITLE: GUIDE PULLEY BEARING | | |
| | | DIMENSIONS ARE IN MILLIMETERS | DRAWN | | | | | |
| | | TOLERANCES: ± 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: | | | | A | L20 |
| | | INTERPRET GEOMETRIC TOLERANCING PER: | | | | SCALE: 16:1 | WEIGHT: | SHEET 24 OF 25 |
| | | MATERIAL | | | | | | |
| | | STEEL | | | | | | |
| | | FINISH | | | | | | |
| | NEXT ASSY | USED ON | | | | | | |
| | APPLICATION | | DO NOT SCALE DRAWING | | | | | |

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| | | |
|-------------|---------|-------------------------------|
| | | UNLESS OTHERWISE SPECIFIED: |
| | | DIMENSIONS ARE IN MILLIMETERS |
| | | TOLERANCES: ±0.01 |
| | | 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: | | |
| GUIDE PULLEY SHAFT | | |
| SIZE | DWG. NO. | REV |
| A | L21 | |
| SCALE: 4:1 | WEIGHT: | SHEET 25 OF 25 |