12

11

10

9

8

7

6

5

4

3

2

1

H H

100.00

G G

F F

B

0

0

.

1

E E

7

1

A

D D

0

0

.

9

3

C C Fully extended moisture probe

B B NOTES:

A Adhesive will be used to fix all sensors in place

B Moisture sensor extension mechanism

UNLESS OTHERWISE SPECIFIED: FINISH: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH:

TOLERANCES:

LINEAR: ± 0.1 mm

ANGULAR: 0.5 deg

NA

DEBURR AND BREAK SHARP EDGES

A

DO NOT SCALE DRAWING REVISION

NAME DATE

TITLE:

Sensor Payload

DRAWN CHK'D

Cris Carreiro Cris Carreiro

11/03/22 11/03/22

Assembly

A A

APPV'D

Cris Carreiro

11/03/22

MATERIAL:

DWG NO.

AGDR

SEE DRAWINGSA2

12

11

10

9

8

7

6

5

WEIGHT:

4

290 grams3

SCALE:1:2 SHEET 1 OF 6 2

1

8

7

6

5

4

3

2

1

R50.00  R48.00 28.40

CHAMFER 0.50 X 45°

24.40

F F

0

0

.

5

17.78

14.78

3.00

4.00 X2

9

9

0

E E

3

8.

6

3

1.

5

0

0

0.

4

0

0.

01

0

0.

11

0

0.

71

0

4.

23

A

0

4.

44

4.

8

0

8.

66

2.

9

SECTION A-A

2.00

D D

165.00

149.00

123.58

0

7.

21

107.39 101.39

C C

0

0

0

B B

A

0

89

66

0

0

0.

1

2

0

0.

9

2

1

1.

1

4

4

9.

5

4

6

0.

4

5

0

2.

2

6

6

1.

7

7

0

0

0

.

.

A UNLESS OTHERWISE SPECIFIED:

DEBURR AND

FINISH:

0.

0

5

0.

00

1

6

6

4

7

DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH:

TOLERANCES:

LINEAR: ± 0.1 mm

ANGULAR: 0.5 deg

NAME DATE

BREAK SHARP

EDGES

NA

TITLE:

DO NOT SCALE DRAWING REVISION Main body casing

DESIGN DRAWN

APPV'D

Cris Carreiro Ishmam Dewan Cris Carreiro

11/3/22 11/3/22 11/3/22

A A

MATERIAL:

Plastic

DWG NO.

AGDR-1

A3

8

7

6

5

4

WEIGHT: 3

93 grams

SCALE:1:2 SHEET 2 OF 6 2

1

8

7

6

5

4

3

2

1

F F

0

0

.

2

E E 9.00

0

6

3.

2

1

6

3.

8

1

0

0.

7

4

0

0.

3

5

4

6.

1

8

4

6.

7

8

0

0.

00

1

2.00

D D

9.00

0

0.

001

2.00

C C

25.00

B B

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH:

TOLERANCES:

LINEAR: ± 0.1 mm

ANGULAR: 0.5 deg

FINISH: DEBURR AND BREAK SHARP

EDGES

NA

DO NOT SCALE DRAWING REVISION

A

NAME DATE

TITLE:

DESIGN DRAWN

Cris Carreiro Ishmam Dewan

11/3/22 11/3/22

Top Plate

APPV'D Cris Carreiro

11/3/22

A A

MATERIAL:

DWG NO.

A3 Plastic AGDR-2

8

7

6

5

4

WEIGHT: 3

grams

SCALE:1:2 SHEET 3 OF 6 2

1

8

7

6

5

4

3

2

1

F F

0

1

3.

2

2

7.

0

3

2

1.

9

5

9

7.

4

8

0

1.

7

8

E E

0

3

1

.

2

3.63

7

1.

4

3

7

5.

2

6

6

8.

1

9

0

0.

4

9

7.50

D D

4

5

.

8

1

32.03

2

4

.

1

4

5

7

.

C C

4

R18.20

8

0

2

.

4

1

R

94.00

21.67

0.

5

1

B B 31.22

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH:

TOLERANCES:

LINEAR: ± 0.1 mm

ANGULAR: 0.5 deg

FINISH: DEBURR AND BREAK SHARP

EDGES

NA

DO NOT SCALE DRAWING REVISION

A

NAME DATE

TITLE:

Motor Support Bracket

DESIGN DRAWN

Cris Carreiro Ishmam Dewan

11/3/22 11/3/22

APPV'D Cris Carreiro

11/3/22

A A

MATERIAL:

DWG NO.

A3 Plastic AGDR-3

8

7

6

5

4

WEIGHT: 3

grams

SCALE:1:2 SHEET 4 OF 6 2

1

8

7

6

5

4

3

2

1

F F

E E

0

5

.

1

D D 1.50

33.50

15

0

0.

C C

77.97

2

.0

0

.

51

°

0

2

B B

R48.00

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH:

TOLERANCES:

LINEAR: ± 0.1 mm

ANGULAR: 0.5 deg

FINISH: DEBURR AND BREAK SHARP

EDGES

NA

DO NOT SCALE DRAWING REVISION

A

NAME DATE

TITLE:

DESIGN DRAWN

Cris Carreiro Ishmam Dewan

11/3/22 11/3/22

Power Module Mounting Bracket

APPV'D Cris Carreiro

11/3/22

A A

MATERIAL:

DWG NO.

A3 Balsa Wood AGDR-4

8

7

6

5

4

WEIGHT: 3

grams

SCALE:1:2 SHEET 5 OF 6 2

1

8

7

6

5

4

3

2

1

F F

0

5

.

1

E E 65.70

D D

0

0

.

C C

3

1

0

5

3.

3

1

5

3.

2

5

R48.00

B B

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH:

TOLERANCES:

LINEAR: ± 0.1 mm

ANGULAR: 0.5 deg

FINISH: DEBURR AND BREAK SHARP

EDGES

NA

DO NOT SCALE DRAWING REVISION

A

NAME DATE

TITLE:

Communications

DESIGN DRAWN

Cris Carreiro Ishmam Dewan

11/3/22 11/3/22

Mounting Bracket

APPV'D Cris Carreiro

11/3/22

A A

MATERIAL:

DWG NO.

A3 Balsa Wood AGDR-5

8

7

6

5

4

WEIGHT: 3

grams

SCALE:1:2 SHEET 6 OF 6 2

1