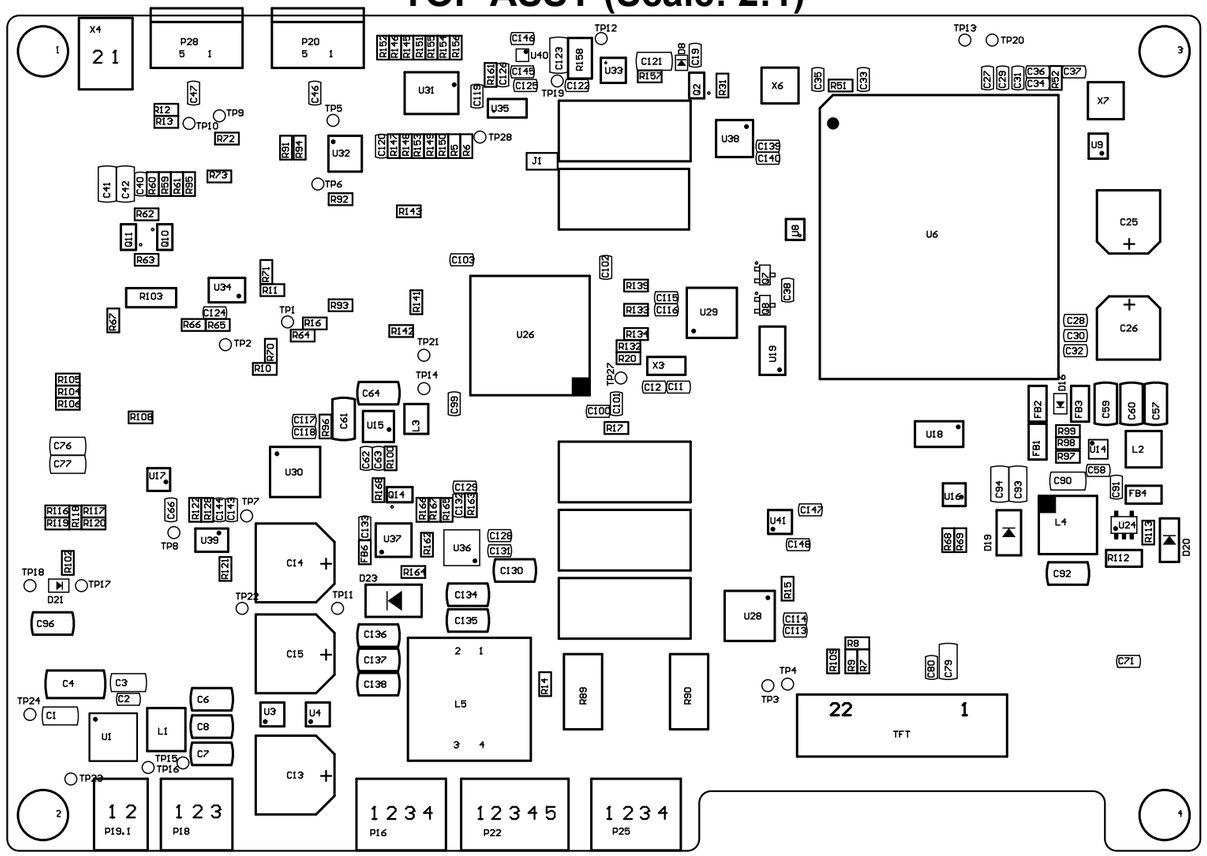
TOP ASSY (Scale: 2:1)



TOP ASSY

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NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL±
ANGULAR: MACH± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN VSI		12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

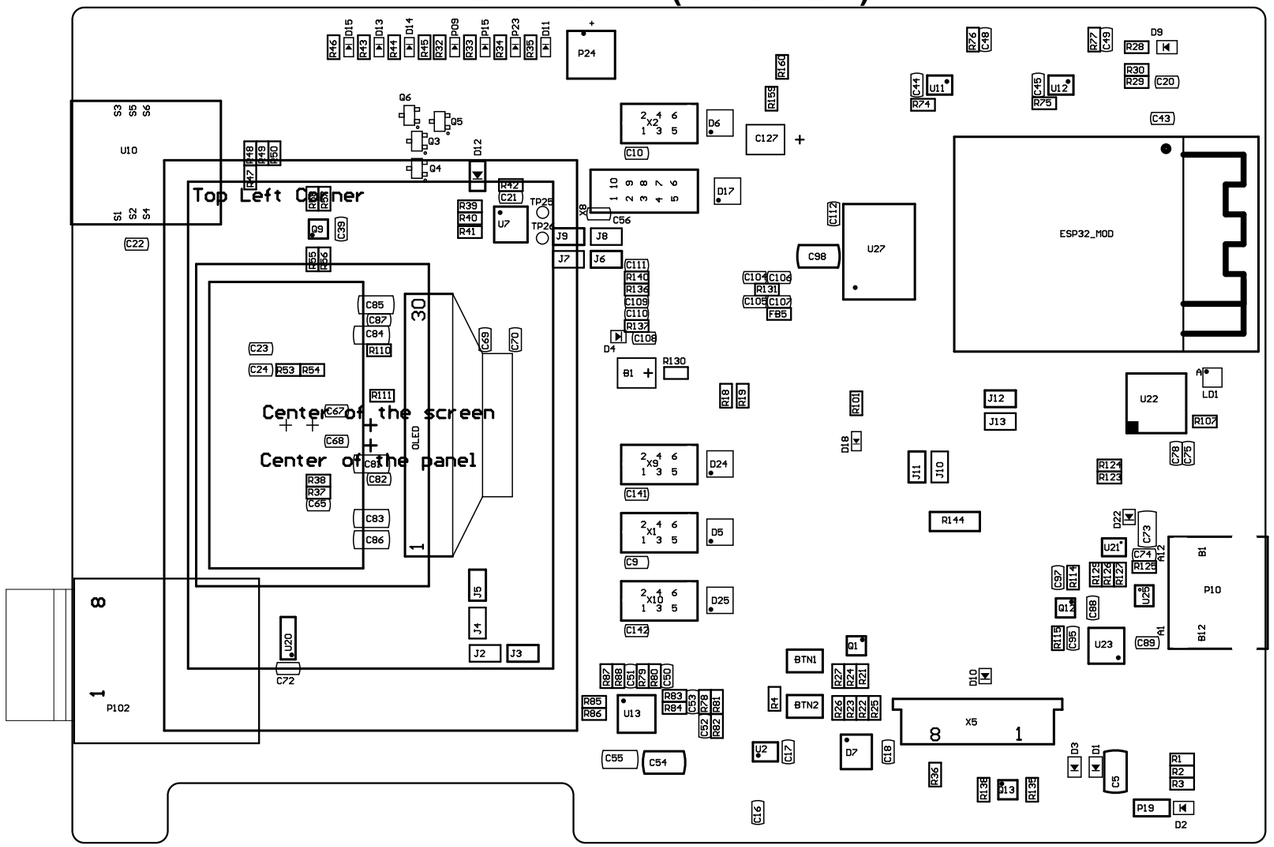
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 1 OF 23

BOT ASSY (Scale: 2:1)



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THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN VSI		12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

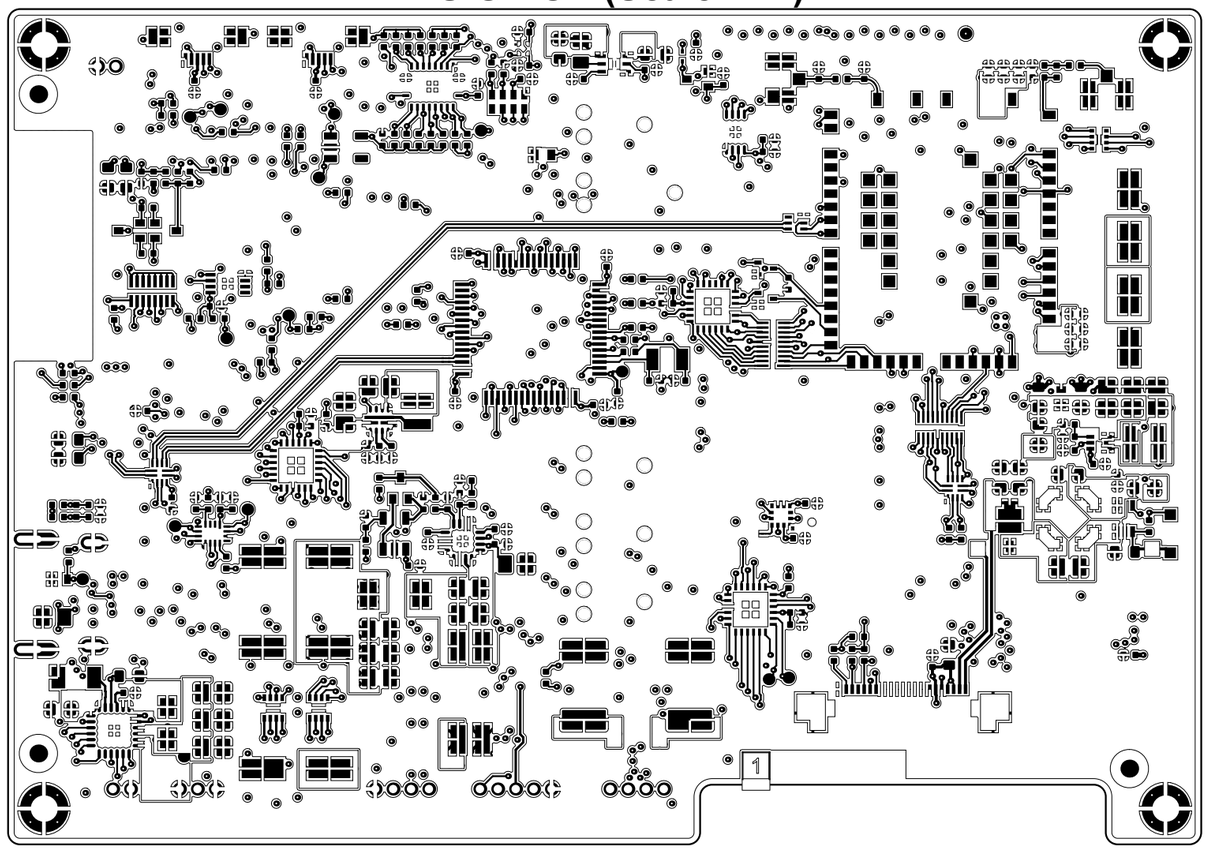
TITLE

Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 2 OF 23

1-SIG-TOP (Scale: 2:1)



1-SIG-TOP

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INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

Control Board

SIZE

DWG. NO. C201

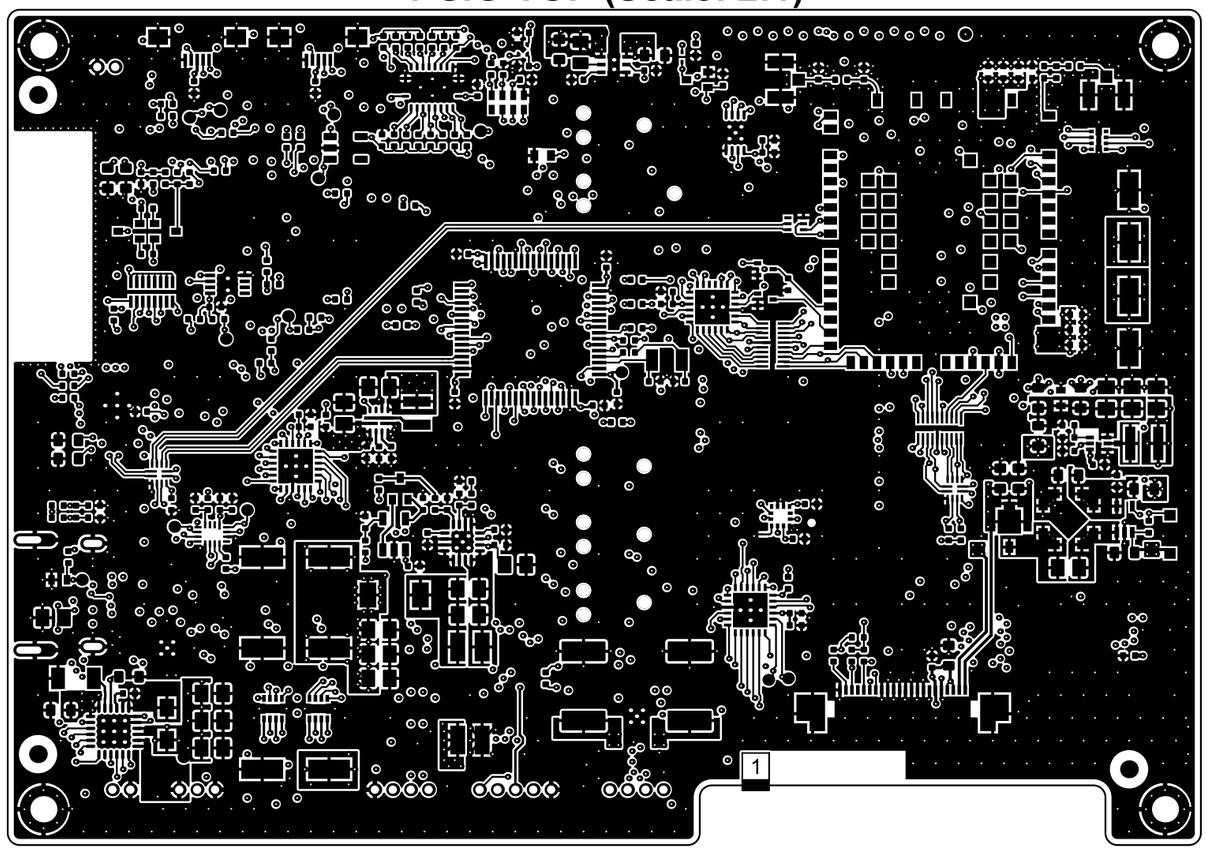
SCALE: 2:1

WEIGHT:

SHEET 3 OF 23

A B C D

1-SIG-TOP (Scale: 2:1)



1-SIG-TOP

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THREE PLACE DECIMAL ±

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MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

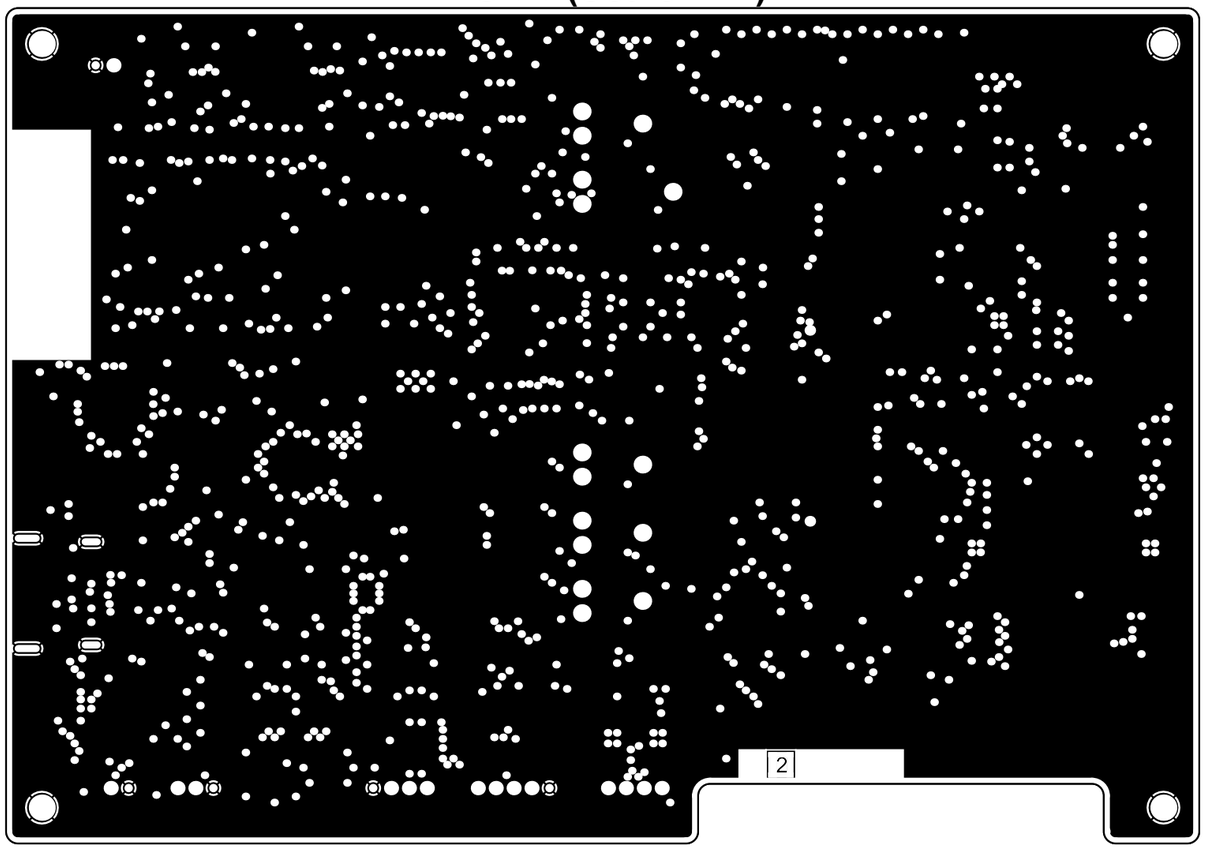
TITLE

Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 4 OF 23

2-GND (Scale: 2:1)



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THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 5 OF 23

3-PWR (Scale: 2:1)

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APPLICATION	

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THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

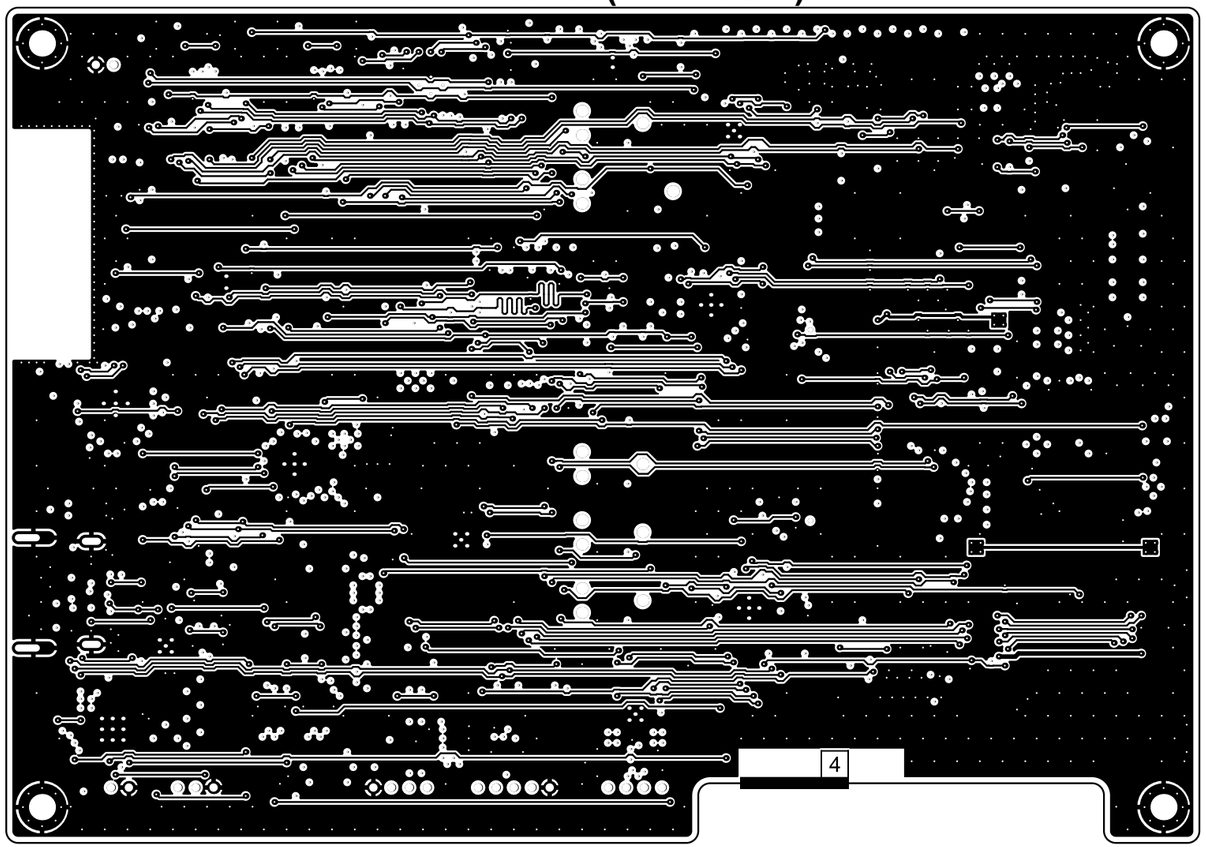
TITLE

Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 6 OF 23

4-SIG-HOR (Scale: 2:1)



4-SIG-HOR

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NEXT ASSY	USED ON
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TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

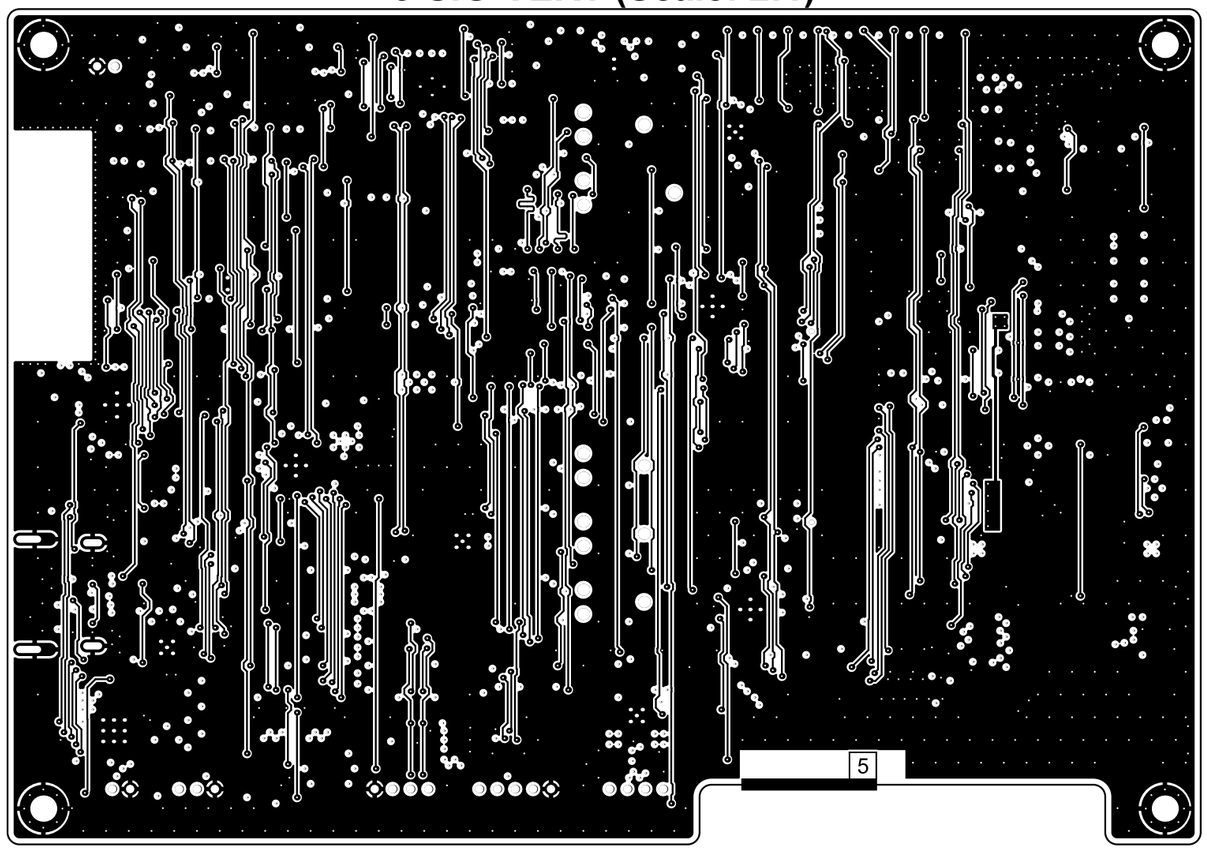
Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 7 OF 23

A B C D

5-SIG-VERT (Scale: 2:1)



5-SIG-VERT

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NEXT ASSY	USED ON
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TOLERANCES:
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ANGULAR: MACH± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

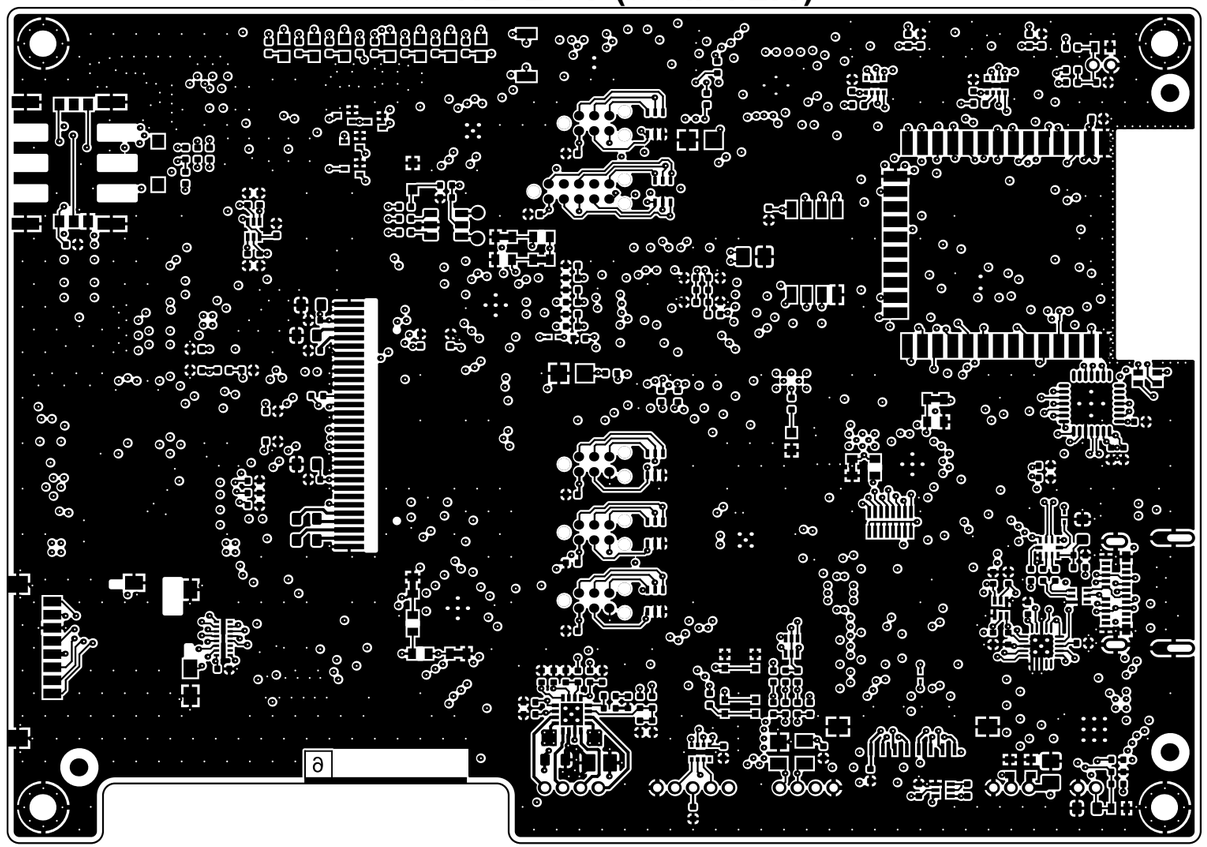
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 8 OF 23

6-GND-BOT (Scale: 2:1)



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NEXT ASSY	USED ON
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THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

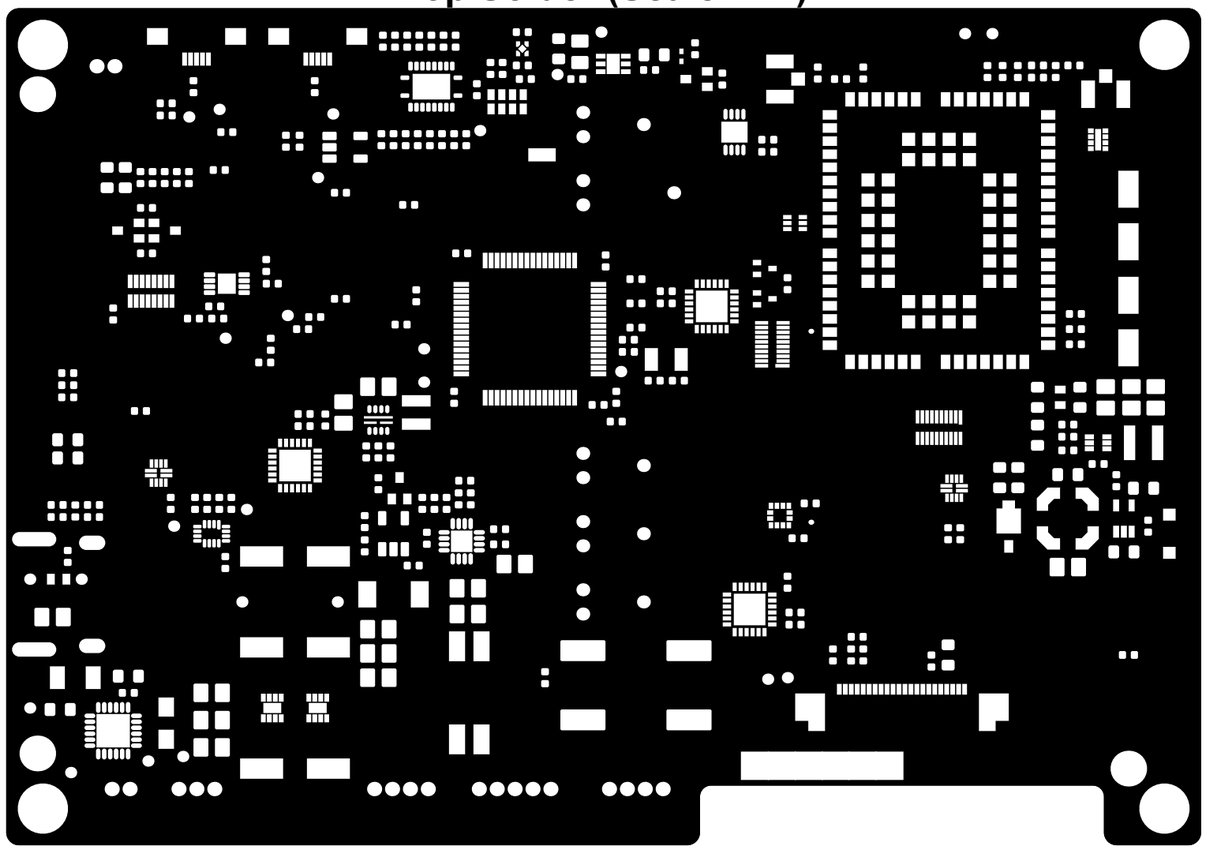
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 9 OF 23

Top Solder (Scale: 2:1)



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ANGULAR: MACH± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

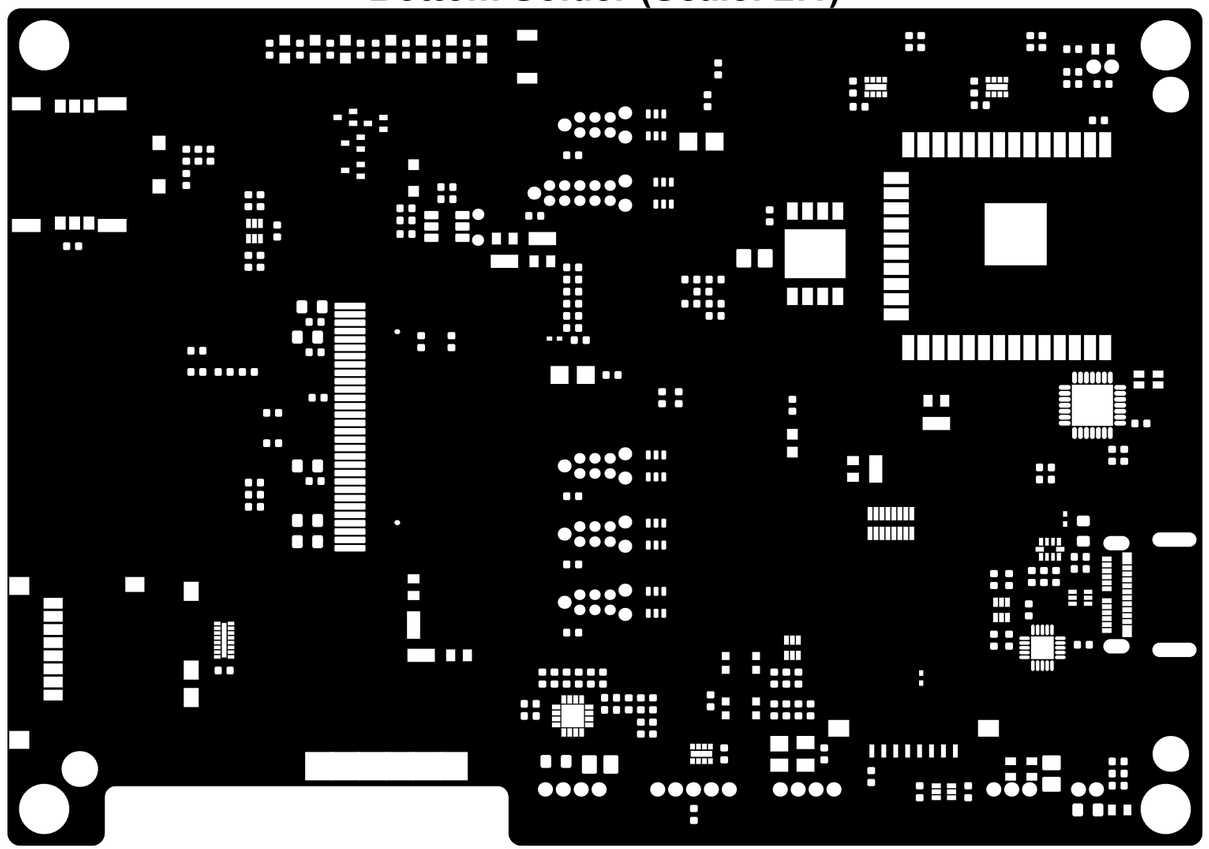
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 10 OF 23

Bottom Solder (Scale: 2:1)



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ANGULAR: MACH± BEND ±
TWO PLACE DECIMAL ±
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INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

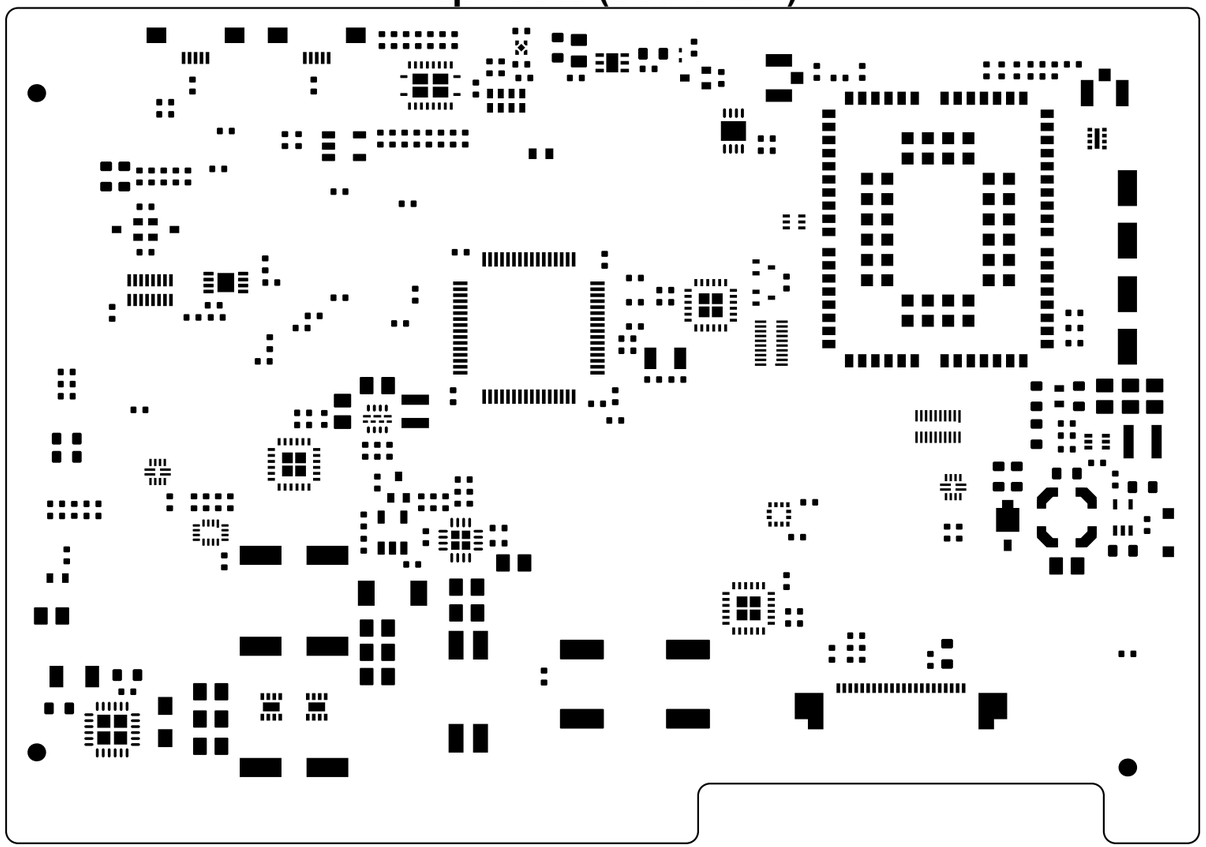
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 11 OF 23

Top Paste (Scale: 2:1)



Top Paste

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NEXT ASSY	USED ON
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TWO PLACE DECIMAL ±
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INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

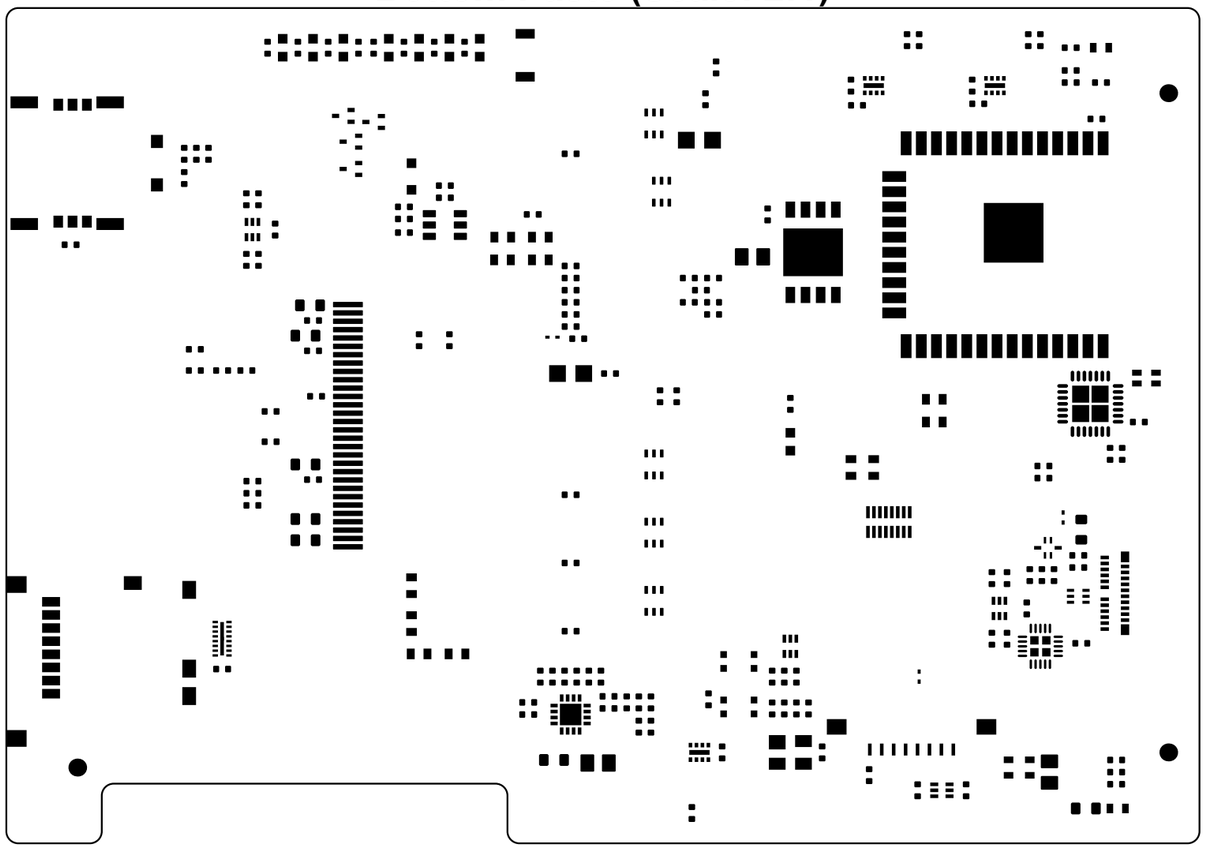
TITLE

Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 12 OF 23

Bottom Paste (Scale: 2:1)



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MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN VSI		12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

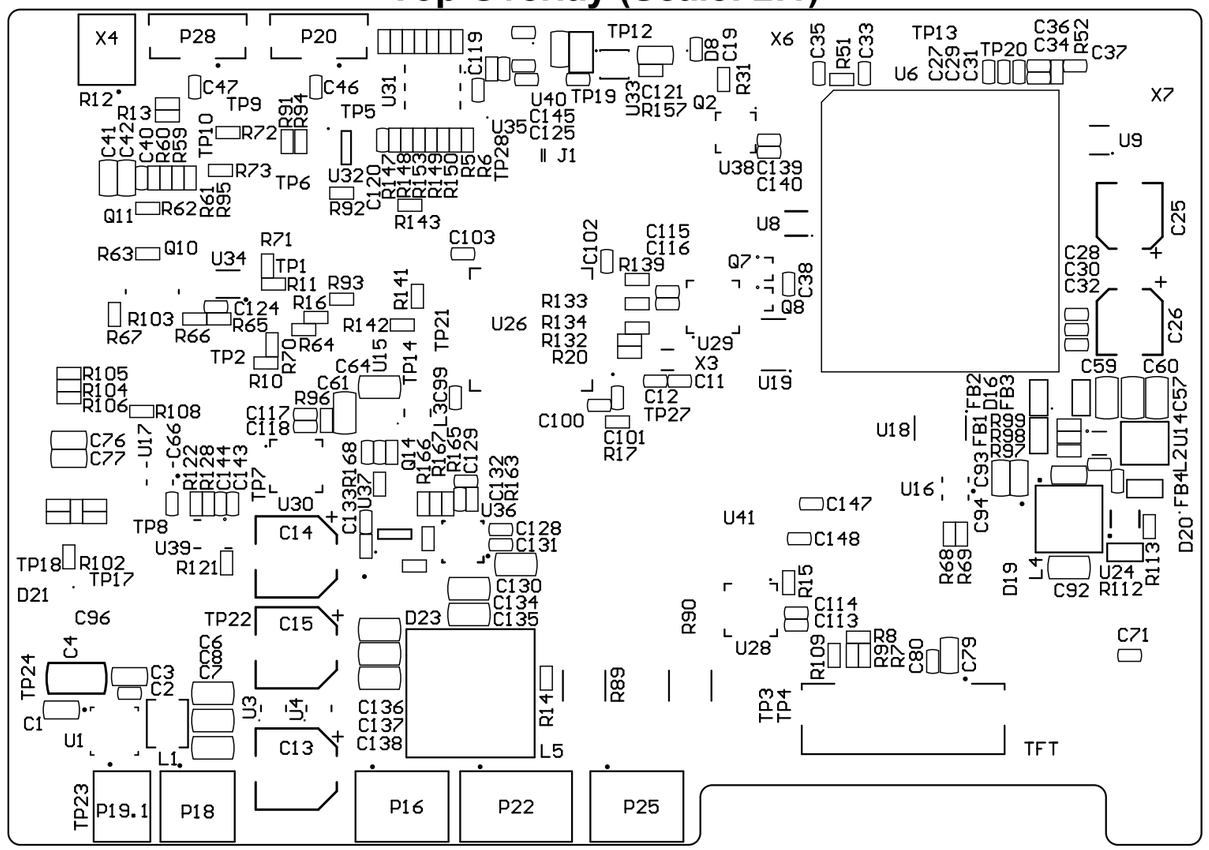
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 13 OF 23

Top Overlay (Scale: 2:1)



Top Overlay

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MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

Control Board

SIZE

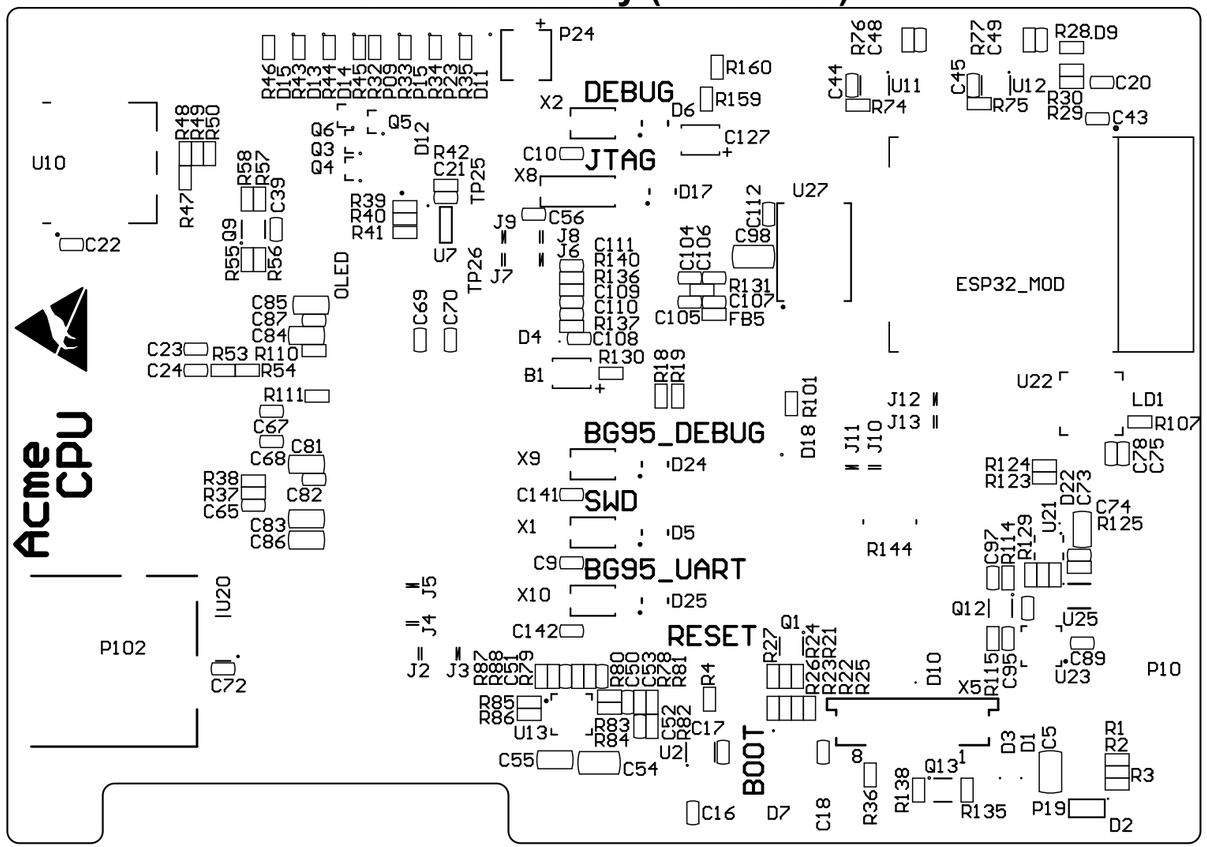
DWG. NO. C201

SCALE: 2:1

WEIGHT:

SHEET 14 OF 23

Bottom Overlay (Scale: 2:1)



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ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

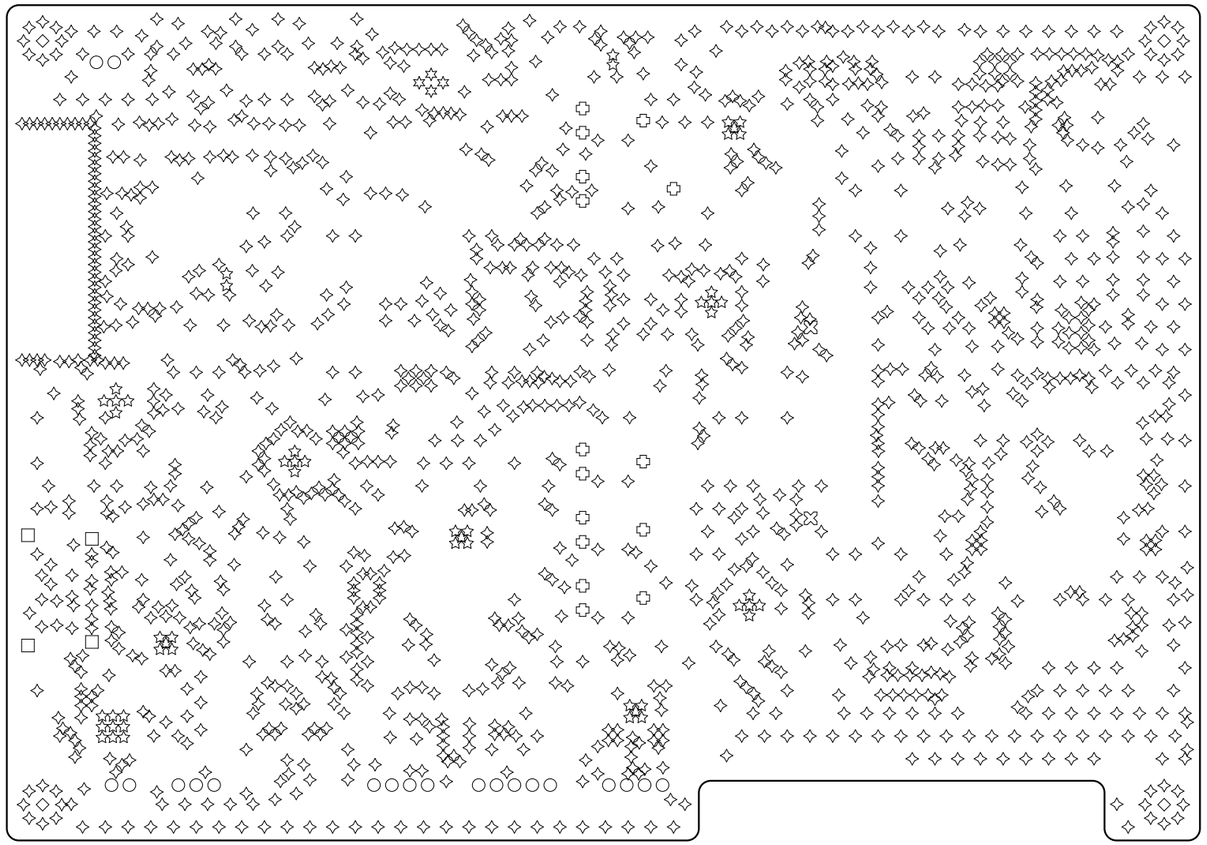
TITLE

Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 15 OF 23

Drill Drawing View



Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
□	4	0.60	Plated	
○	20	0.70	Plated	
◇	4	2.20	Plated	
⌘	2	0.40	Non-Plated	
⌖	15	0.99	Non-Plated	
✧	1553	0.15	Plated	
☆	53	0.30	Plated	
✡	4	0.20	Plated	

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MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

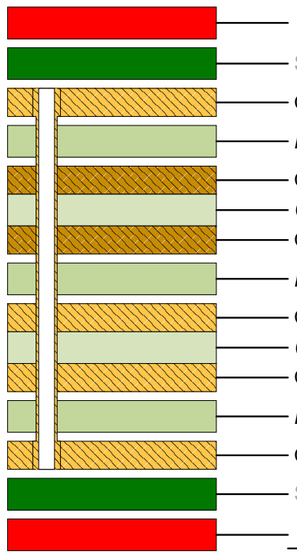
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 16 OF 23

Layer Stack Legend



Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
Surface Material	Top Solder	0.02mm	Solder Resist	Solder Mask	GTS
Copper	1-SIG-TOP	0.04mm		Signal	GTL
Prepreg		*0.11mm*	*FR-4*	*Dielectric*	
Copper	2-GND	0.04mm		Internal Plane	GP1
Core		*0.30mm*	*FR-4*	*Dielectric*	
Copper	3-PWR	0.04mm		Internal Plane	GP2
Prepreg		*0.15mm*	*FR-4*	*Dielectric*	
Copper	4-SIG-HOR	0.04mm		Signal	G1
Core		*0.30mm*	*FR-4*	*Dielectric*	
Copper	5-SIG-VERT	0.04mm		Signal	G2
Prepreg		*0.11mm*	*FR-4*	*Dielectric*	
Copper	6-GND-BOT	0.04mm		Signal	GBL
Surface Material	Bottom Solder	0.02mm	Solder Resist	Solder Mask	GBS
	Bottom Overlay			Legend	GBO

Total thickness: 1.21mm

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NEXT ASSY | USED ON

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MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

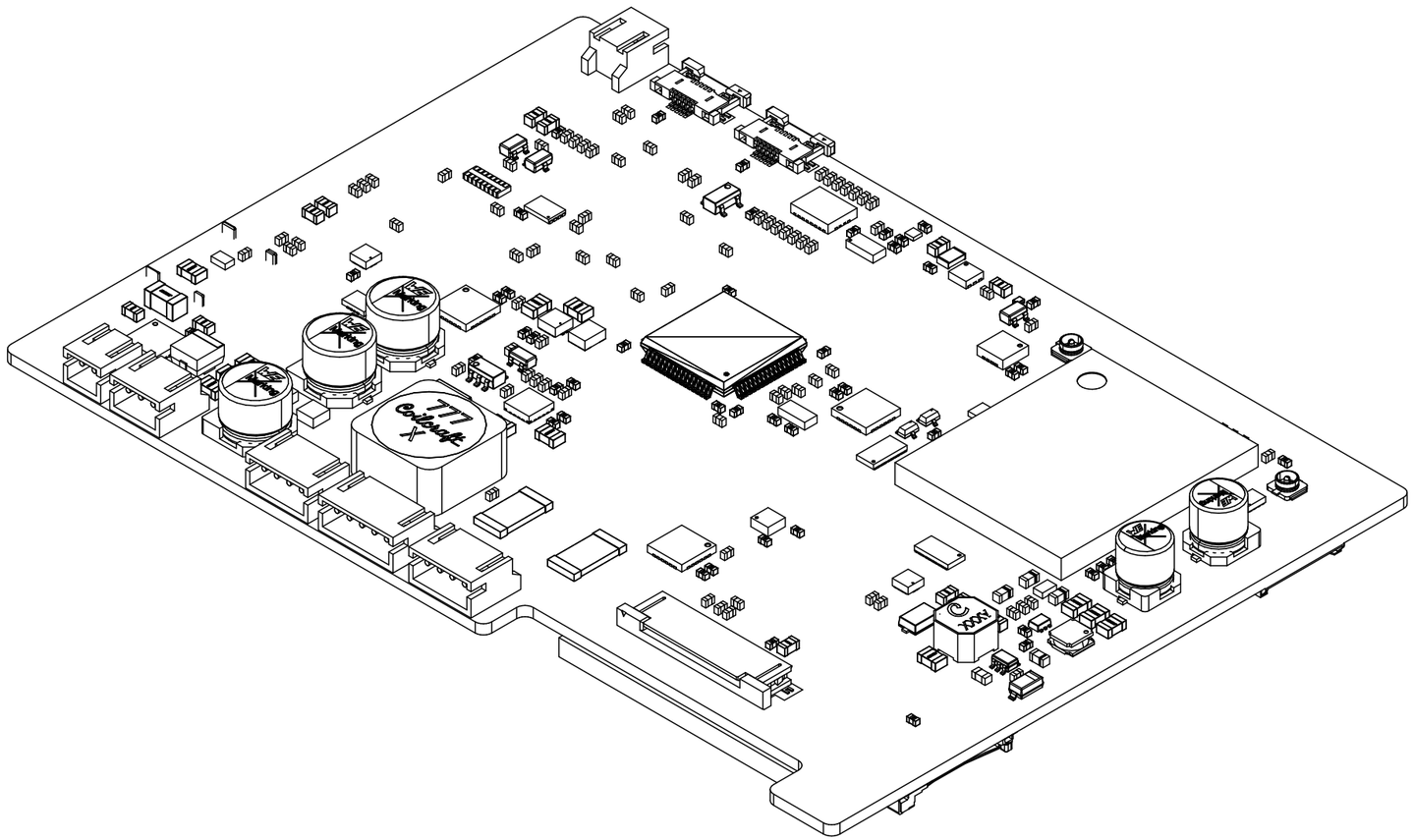
TITLE

Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 17 OF 23

View from Front side (Scale 2:1)



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THREE PLACE DECIMAL ±

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MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

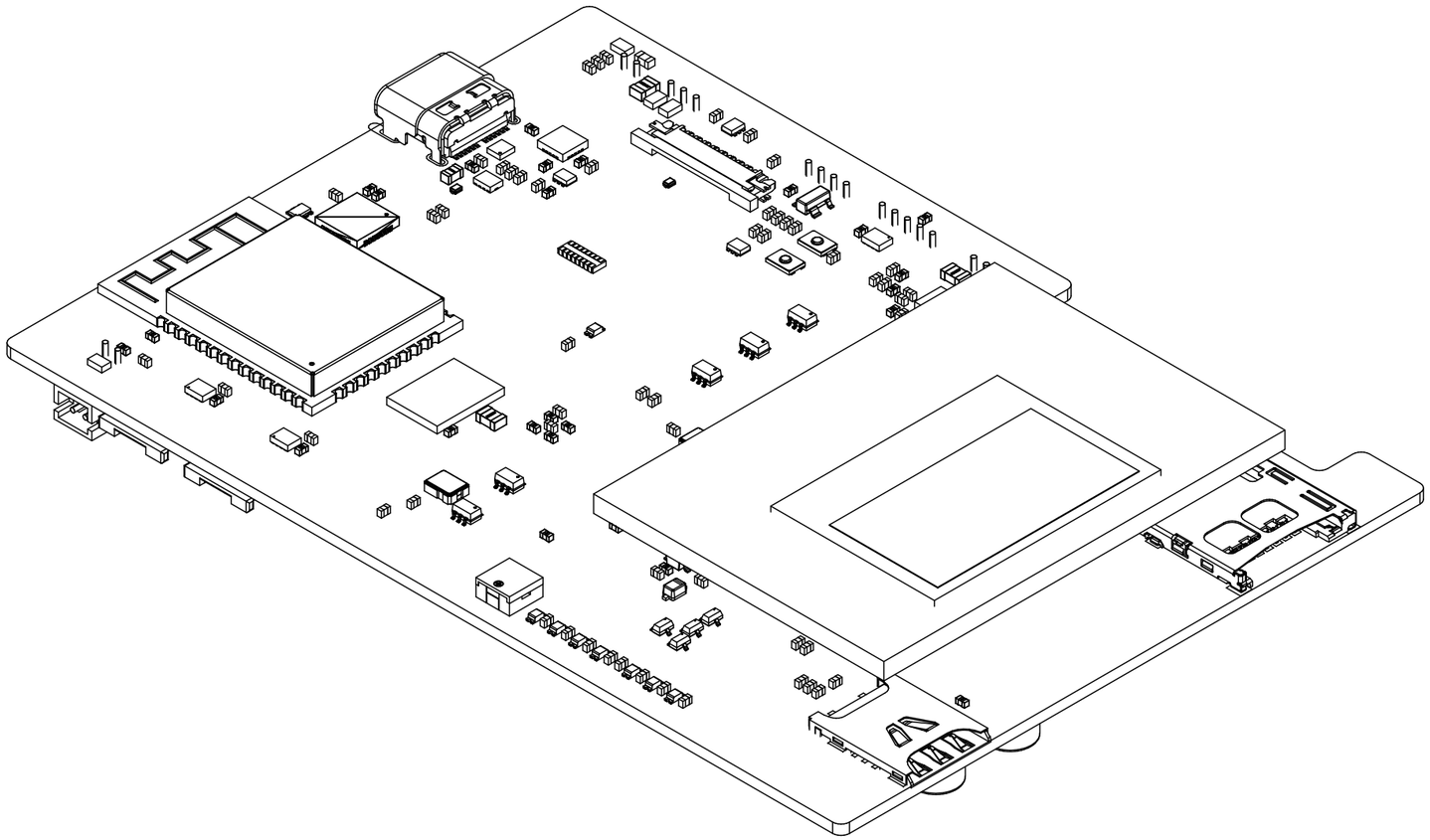
Acme CPU

TITLE

Control Board

SIZE	DWG. NO.	
	C201	
SCALE: 2:1	WEIGHT:	SHEET 18 OF 23

View from Back side (Scale 2:1)



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

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

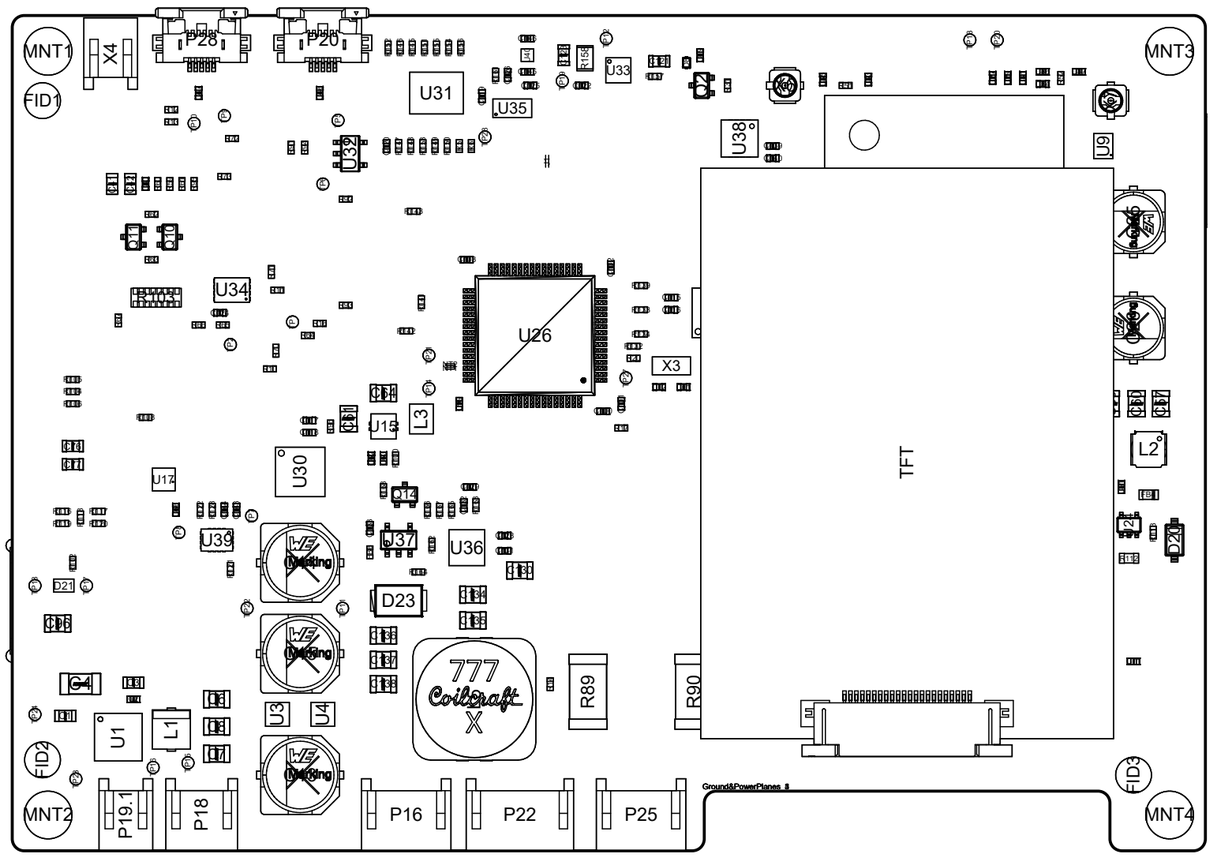
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 19 OF 23

View from Top side (Scale 2:1)



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PROPRIETARY AND CONFIDENTIAL

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL±
ANGULAR: MACH± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN VSI		12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

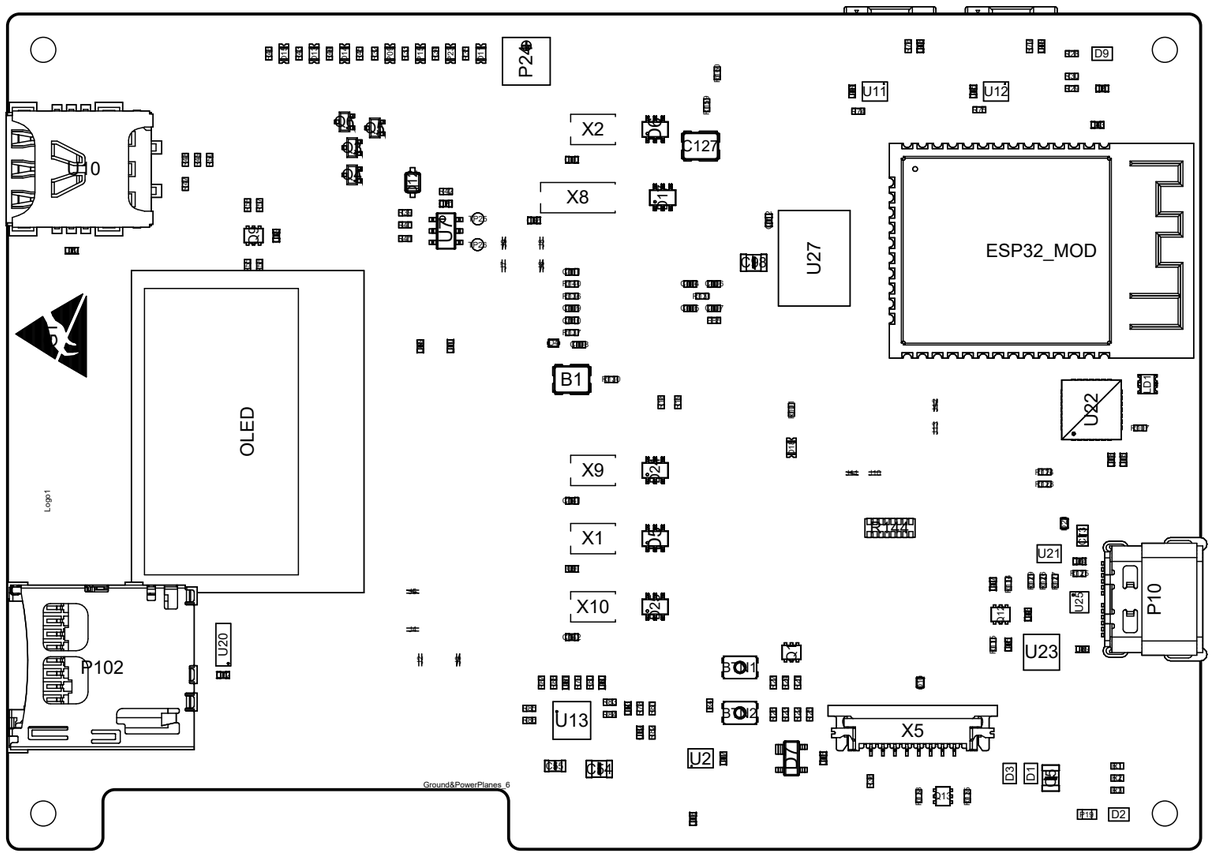
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 20 OF 23

View from Bottom side (Scale 2:1)



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PROPRIETARY AND CONFIDENTIAL

NEXT ASSY	USED ON
APPLICATION	

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DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL±
ANGULAR: MACH± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN VSI		12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

Control Board

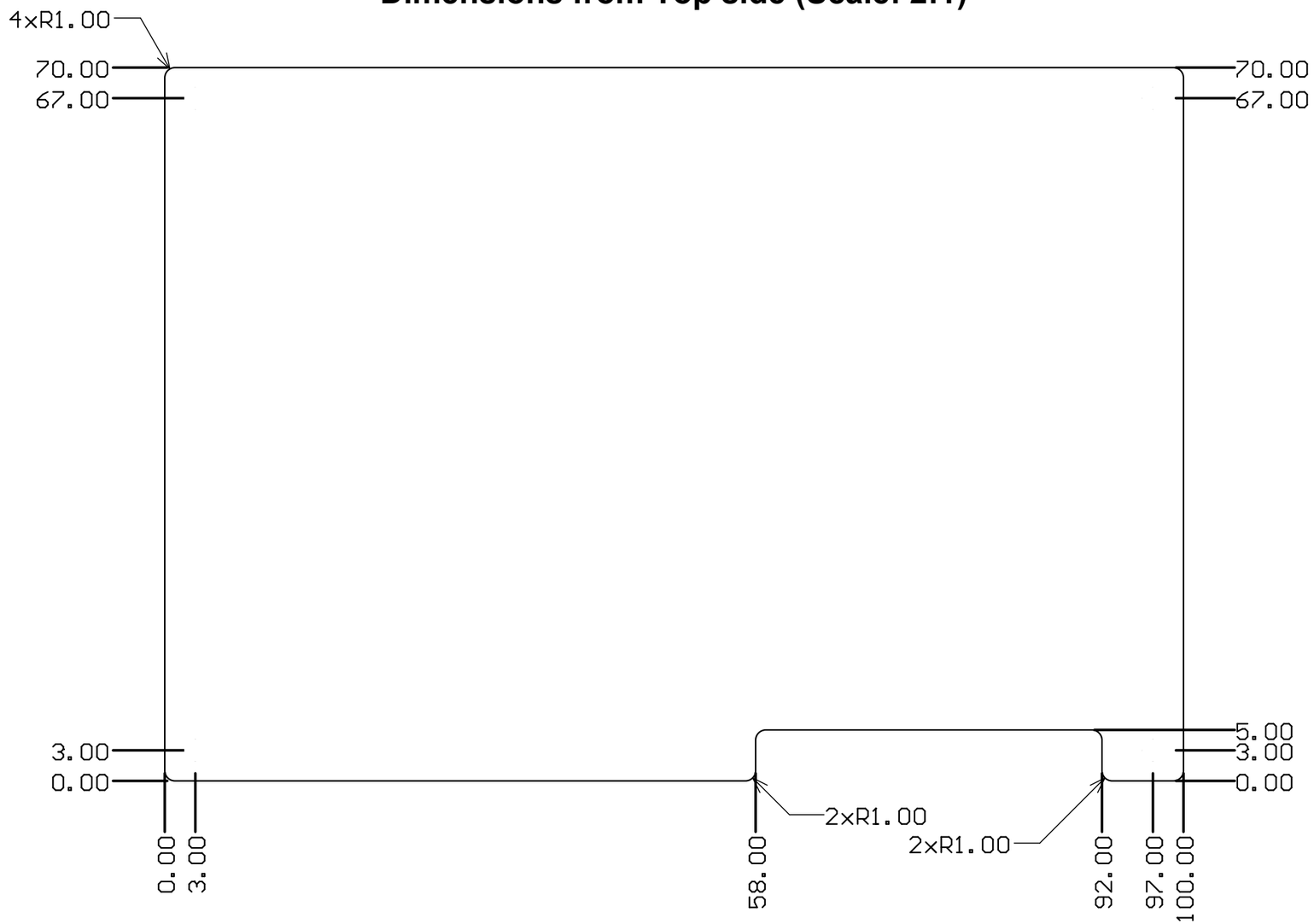
SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT:

SHEET 21 OF 23

Dimensions from Top side (Scale: 2:1)



Dimensions

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL± ANGULAR: MACH± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN VSI		12/22/2020
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

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PROPRIETARY AND CONFIDENTIAL

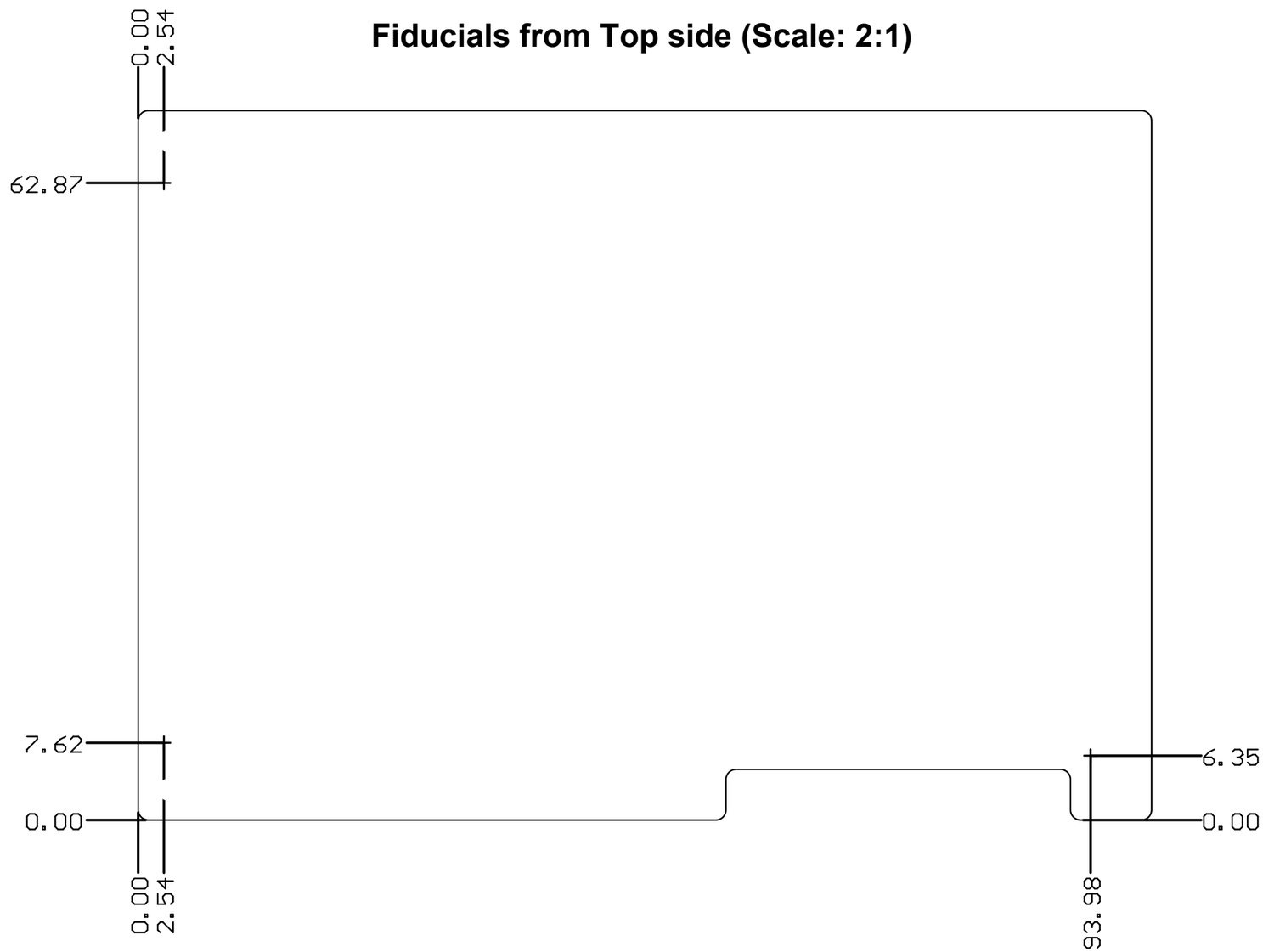
Acme CPU

TITLE

Control Board

SIZE	DWG. NO.	
	C201	
SCALE: 2:1	WEIGHT:	SHEET 22 OF 23

Fiducials from Top side (Scale: 2:1)



Fiducials

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PROPRIETARY AND CONFIDENTIAL

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL±
ANGULAR: MACH± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN VSI		12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

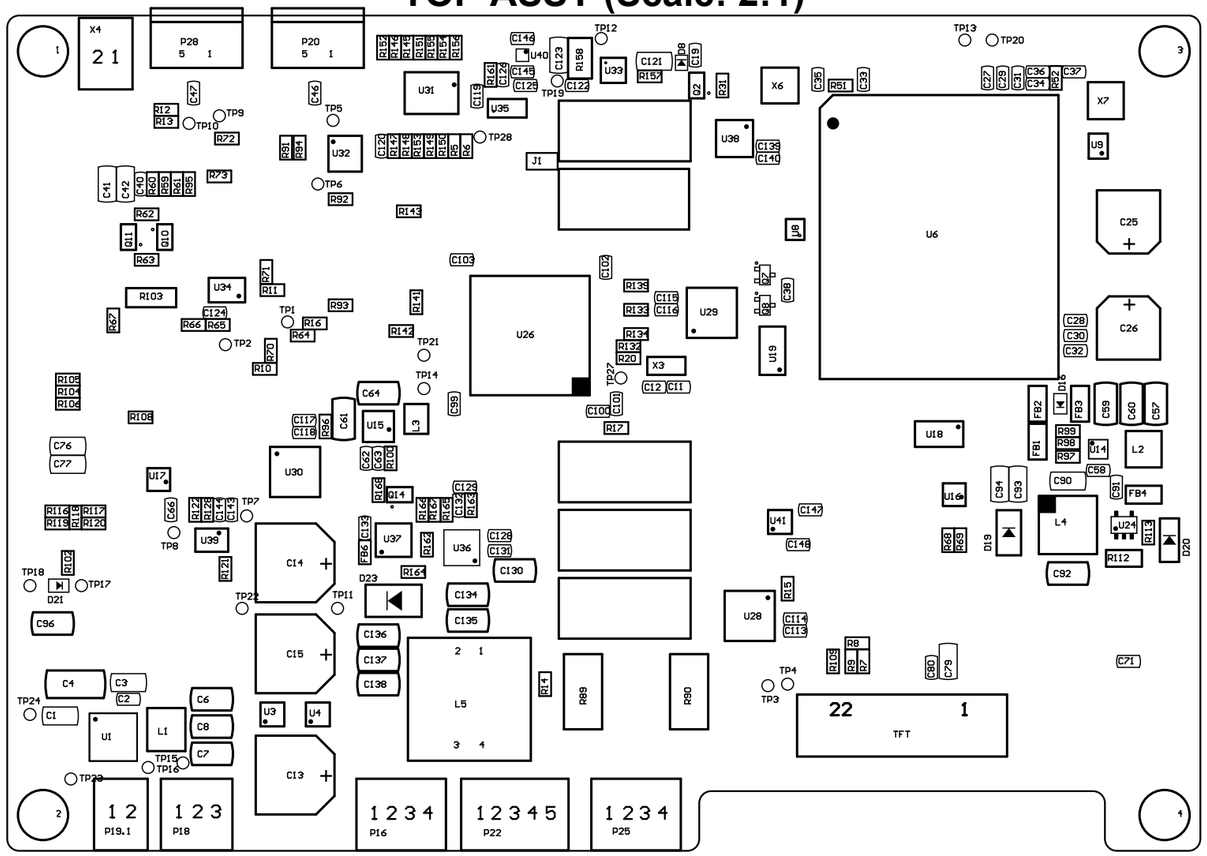
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 23 OF 23

TOP ASSY (Scale: 2:1)



TOP ASSY

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PROPRIETARY AND CONFIDENTIAL

NEXT ASSY	USED ON
APPLICATION	

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

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN VSI		12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

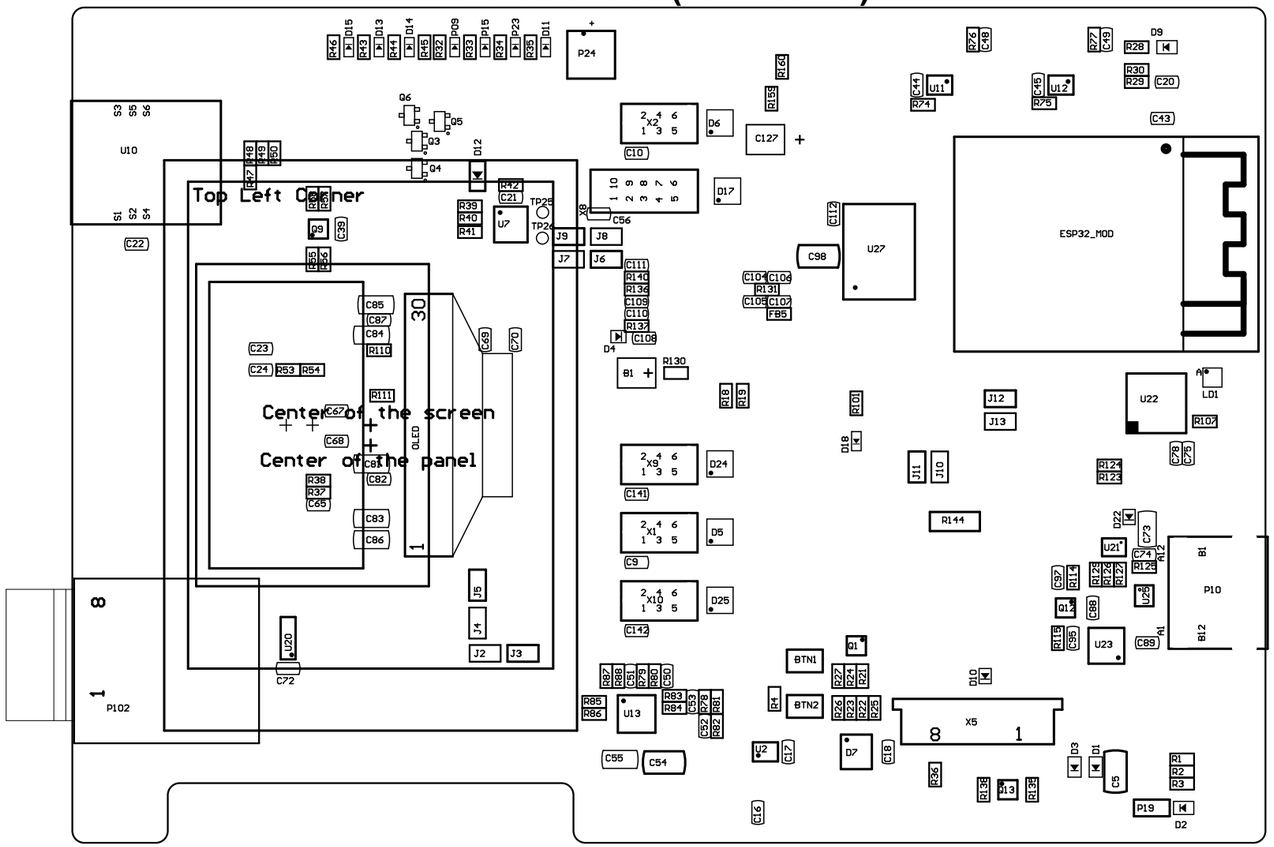
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 1 OF 23

BOT ASSY (Scale: 2:1)



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NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL±
ANGULAR: MACH± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN VSI		12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

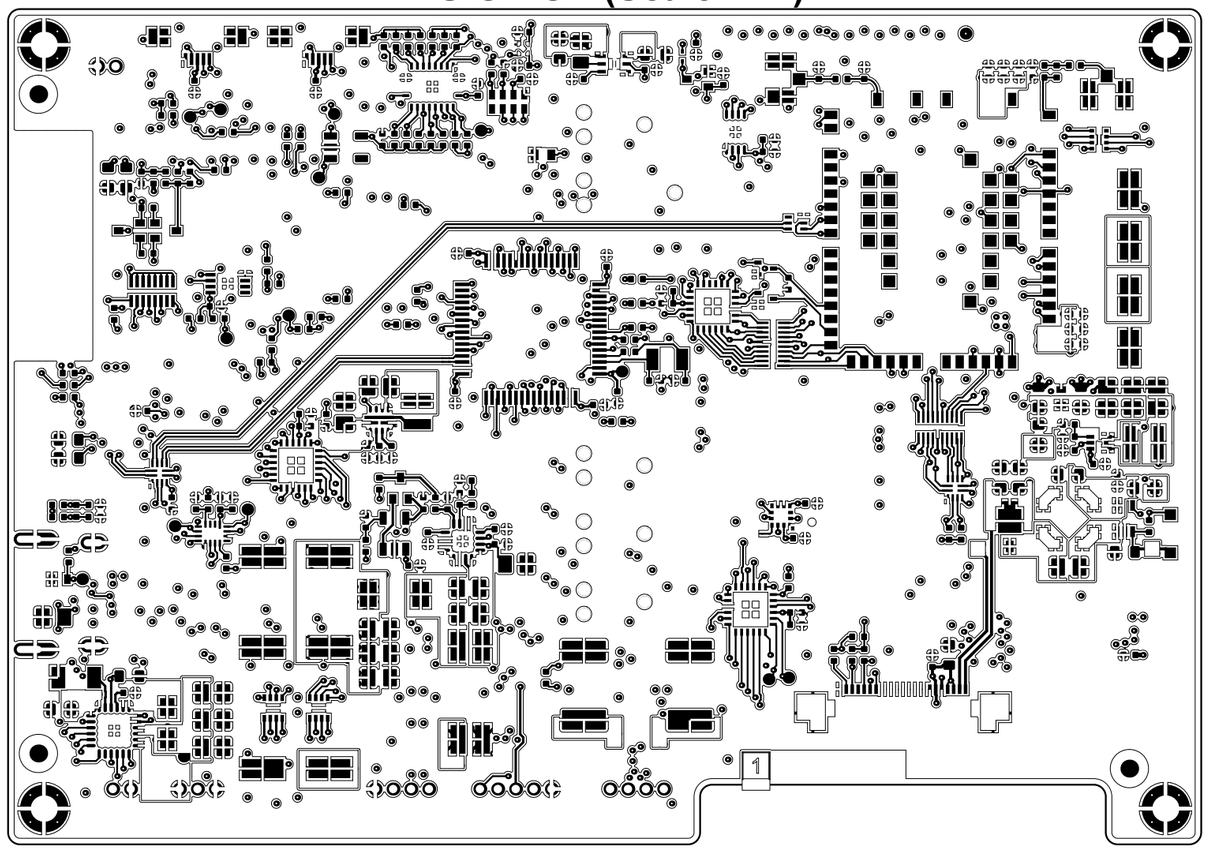
TITLE

Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 2 OF 23

1-SIG-TOP (Scale: 2:1)



1-SIG-TOP

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NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL±
ANGULAR: MACH± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

Control Board

SIZE

DWG. NO. C201

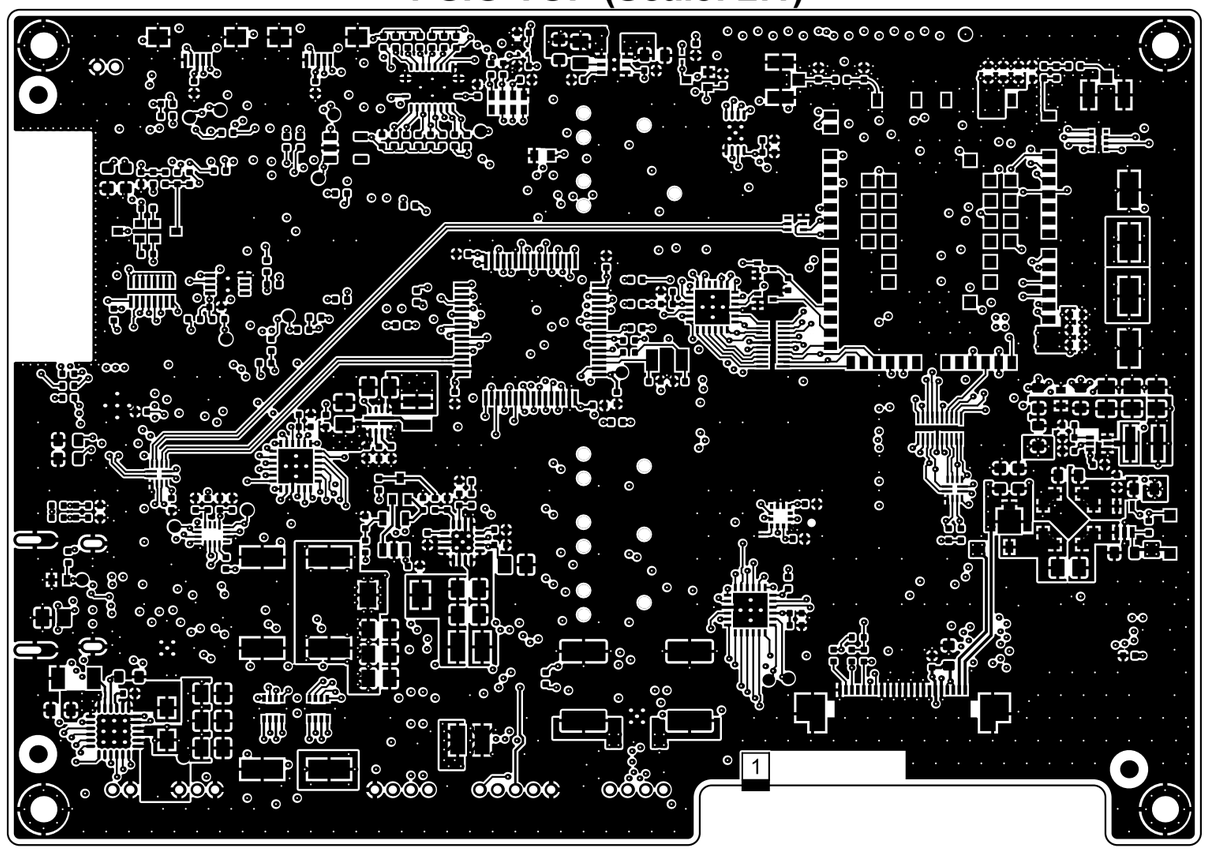
SCALE: 2:1

WEIGHT:

SHEET 3 OF 23

A B C D

1-SIG-TOP (Scale: 2:1)



1-SIG-TOP

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NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED:
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TOLERANCES:
FRACTIONAL±
ANGULAR: MACH± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

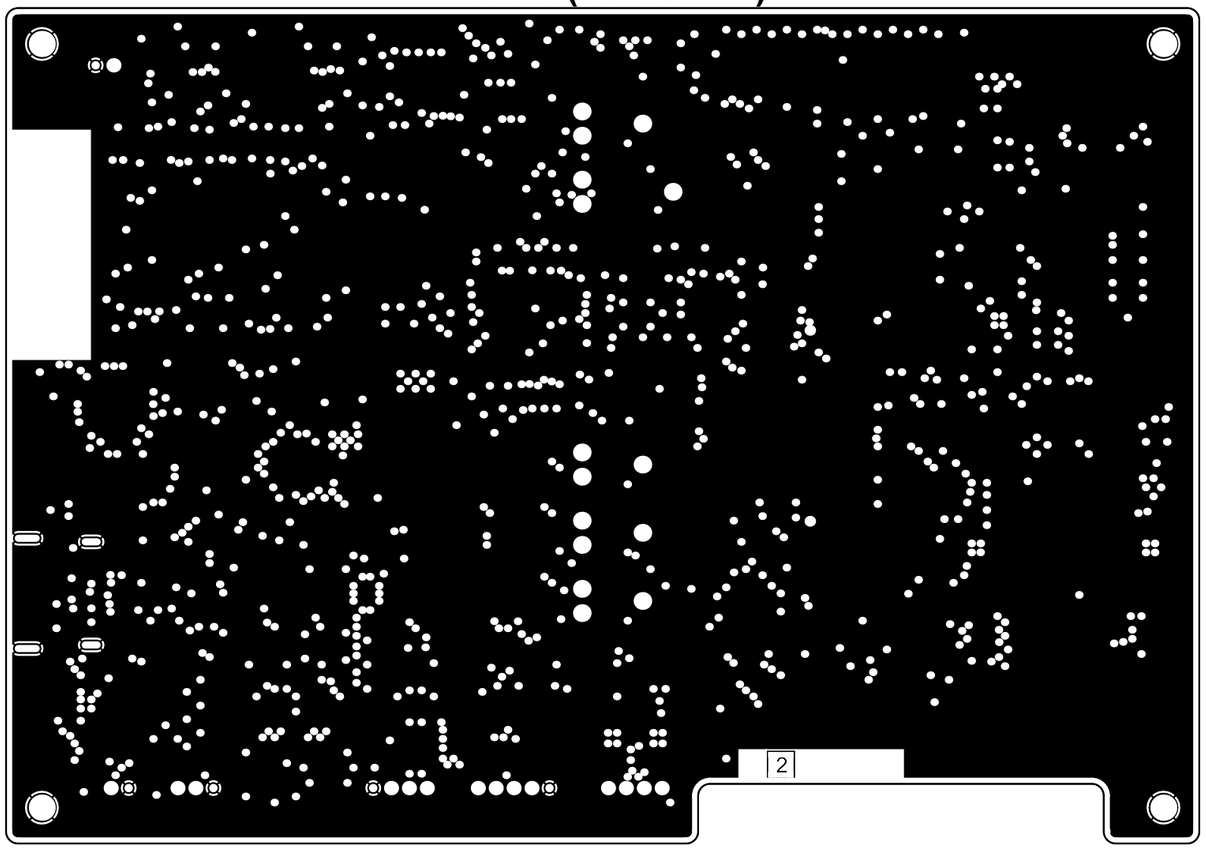
TITLE

Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 4 OF 23

2-GND (Scale: 2:1)



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PROPRIETARY AND CONFIDENTIAL

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL±
ANGULAR: MACH± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 5 OF 23

3-PWR (Scale: 2:1)

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PROPRIETARY AND CONFIDENTIAL

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL±
ANGULAR: MACH± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

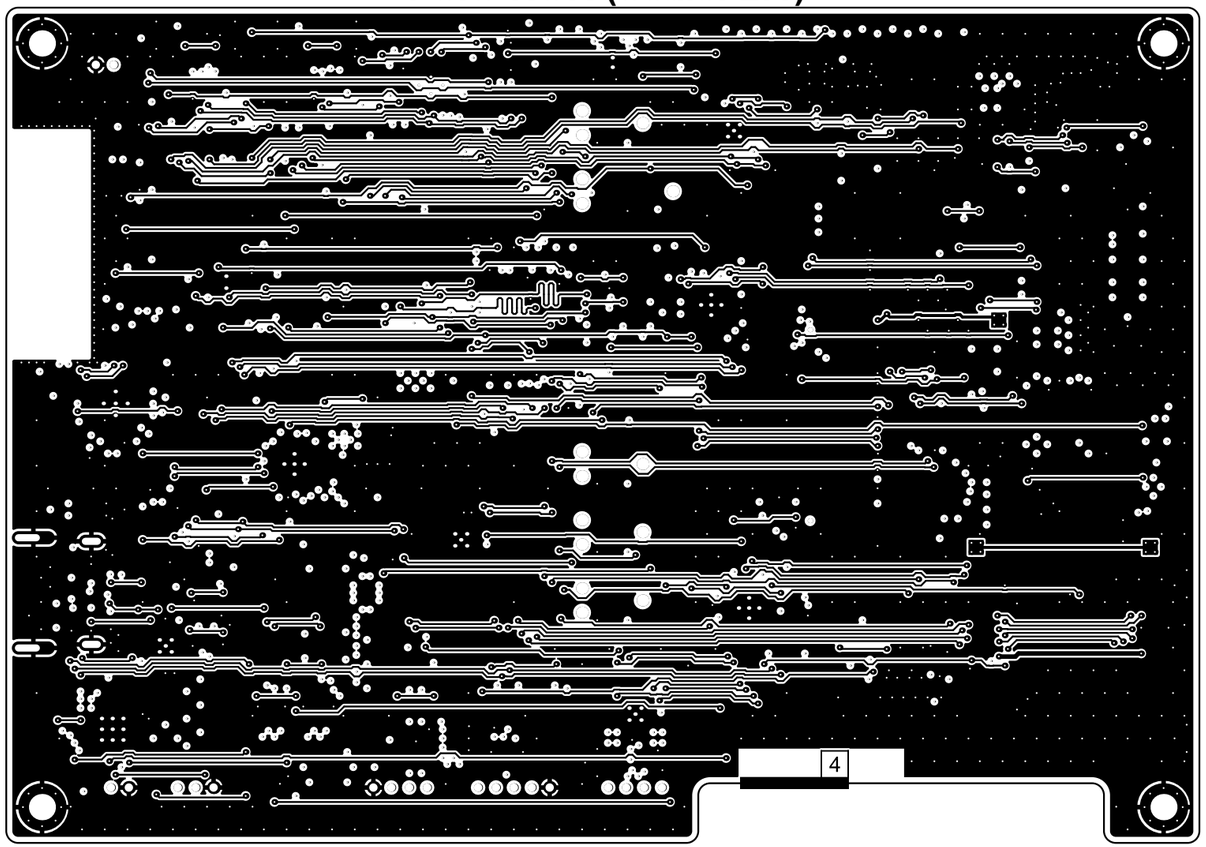
TITLE

Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 6 OF 23

4-SIG-HOR (Scale: 2:1)



4-SIG-HOR

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NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED:
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TOLERANCES:
FRACTIONAL±
ANGULAR: MACH± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

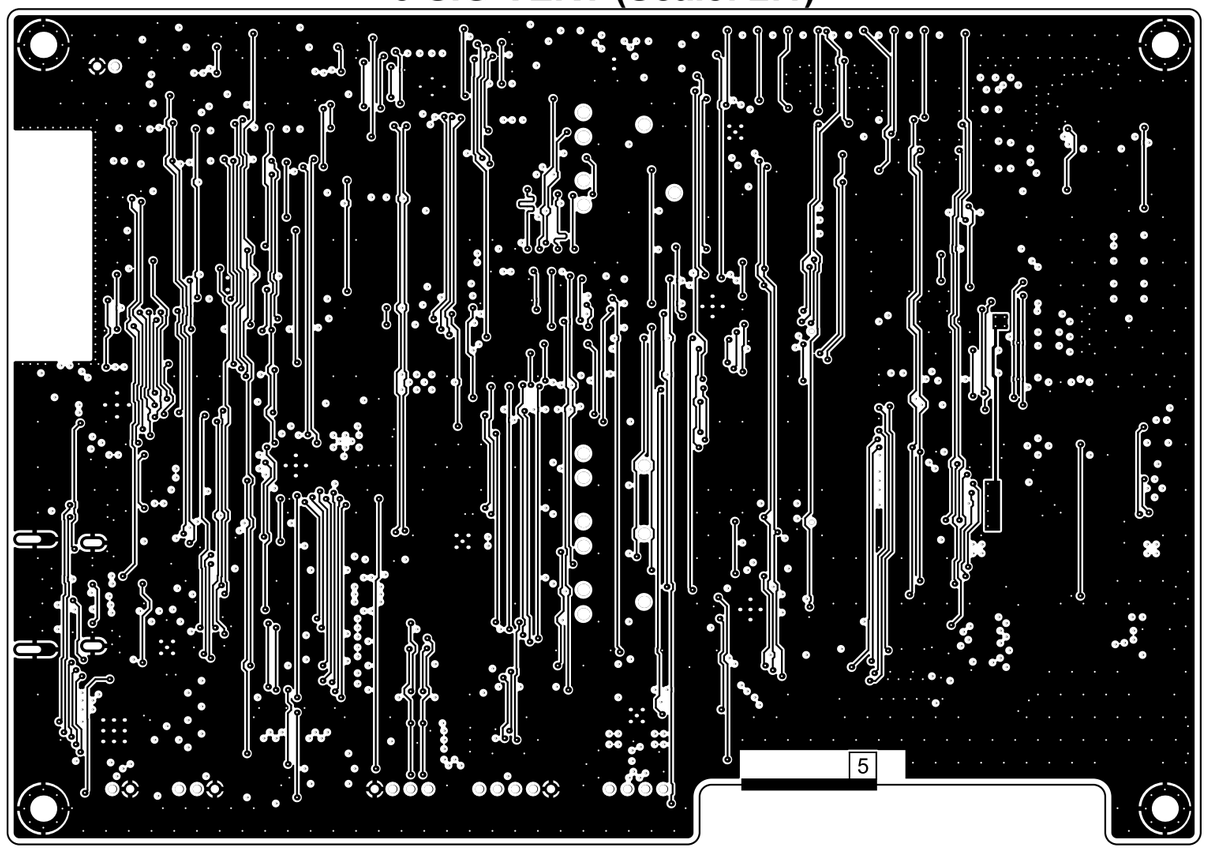
Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 7 OF 23

A B C D

5-SIG-VERT (Scale: 2:1)



5-SIG-VERT

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PROPRIETARY AND CONFIDENTIAL

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL±
ANGULAR: MACH± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

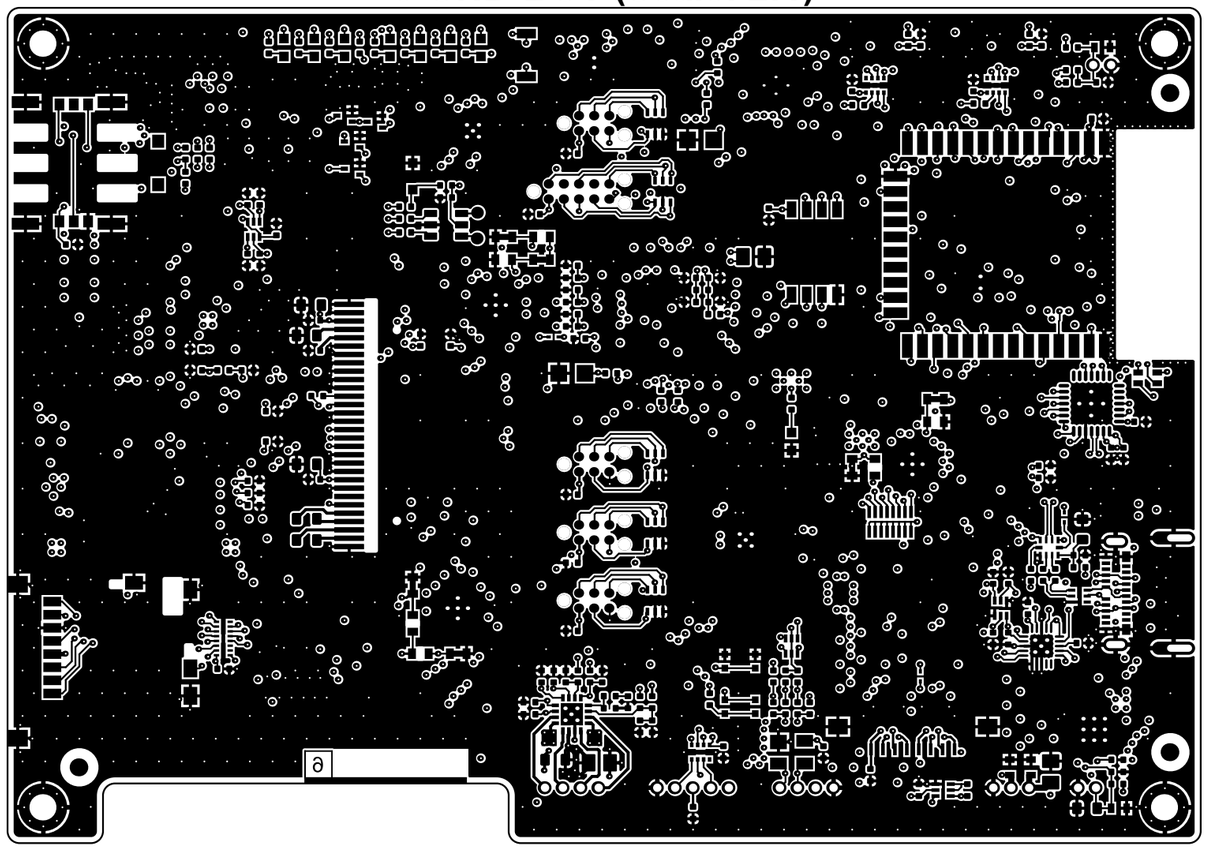
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 8 OF 23

6-GND-BOT (Scale: 2:1)



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PROPRIETARY AND CONFIDENTIAL

NEXT ASSY	USED ON
APPLICATION	

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

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

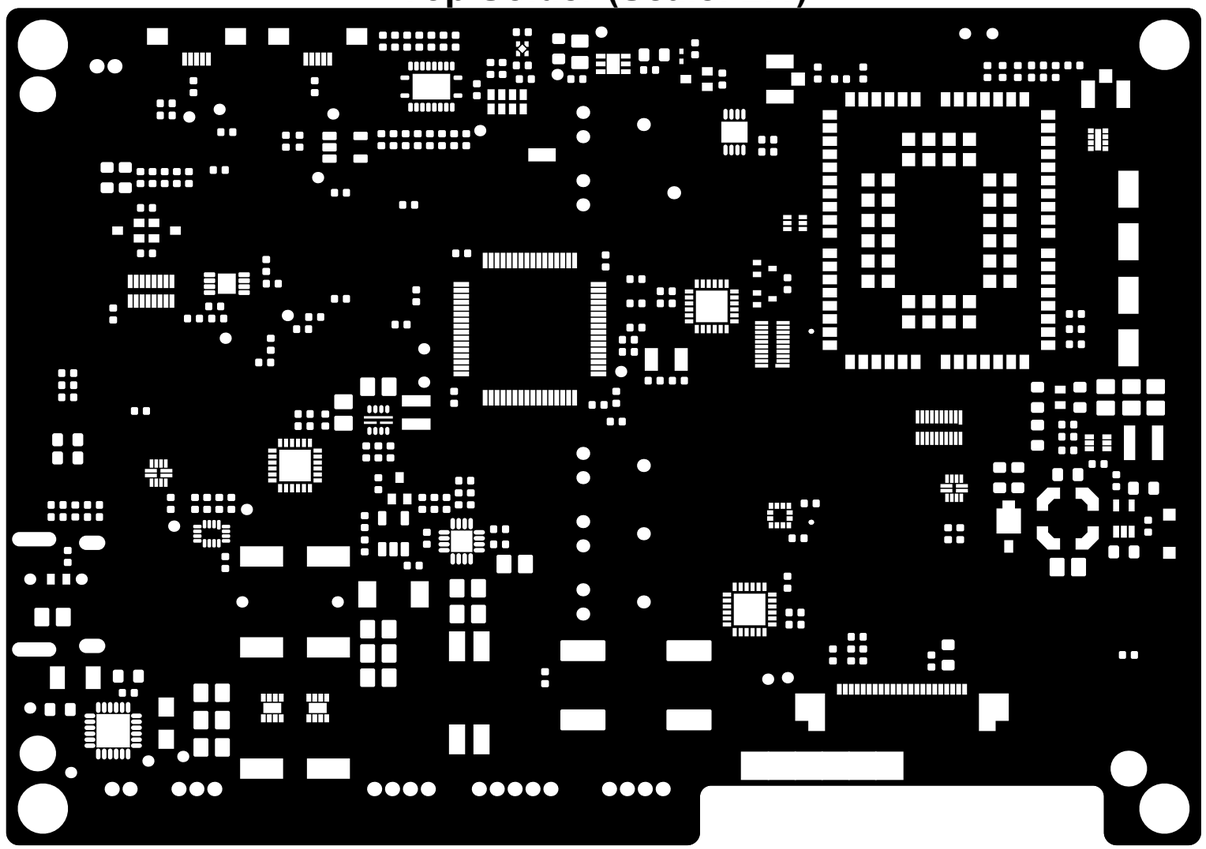
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 9 OF 23

Top Solder (Scale: 2:1)



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NEXT ASSY	USED ON
APPLICATION	

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

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

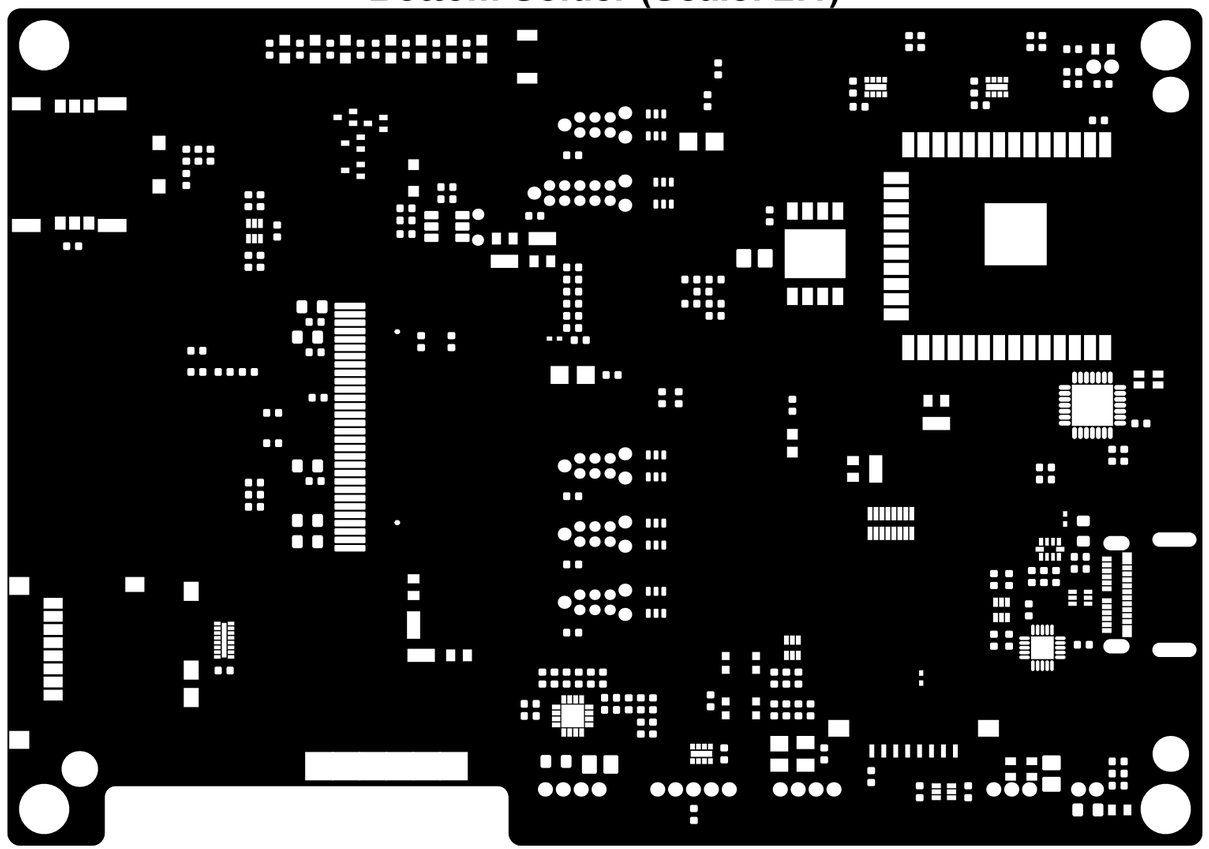
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 10 OF 23

Bottom Solder (Scale: 2:1)



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PROPRIETARY AND CONFIDENTIAL

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL±
ANGULAR: MACH± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

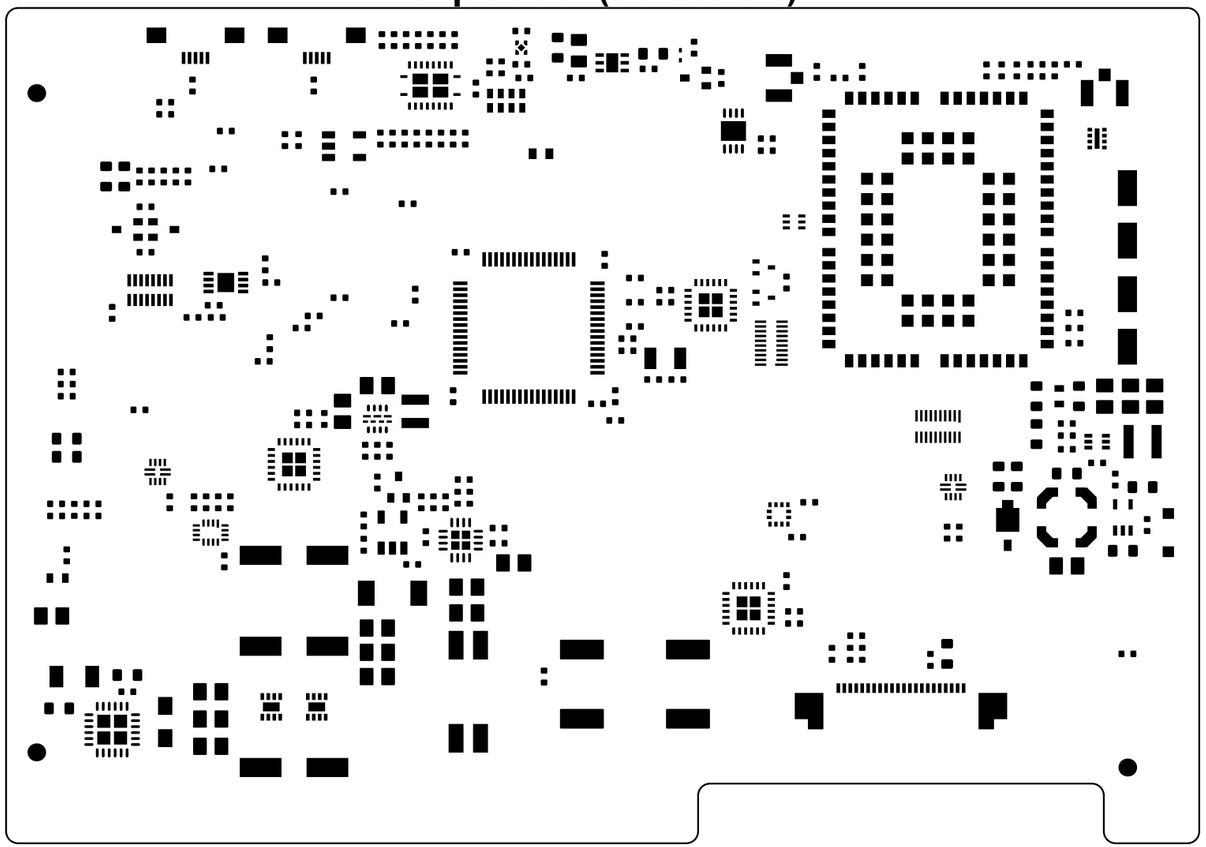
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 11 OF 23

Top Paste (Scale: 2:1)



Top Paste

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NEXT ASSY	USED ON
APPLICATION	

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

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

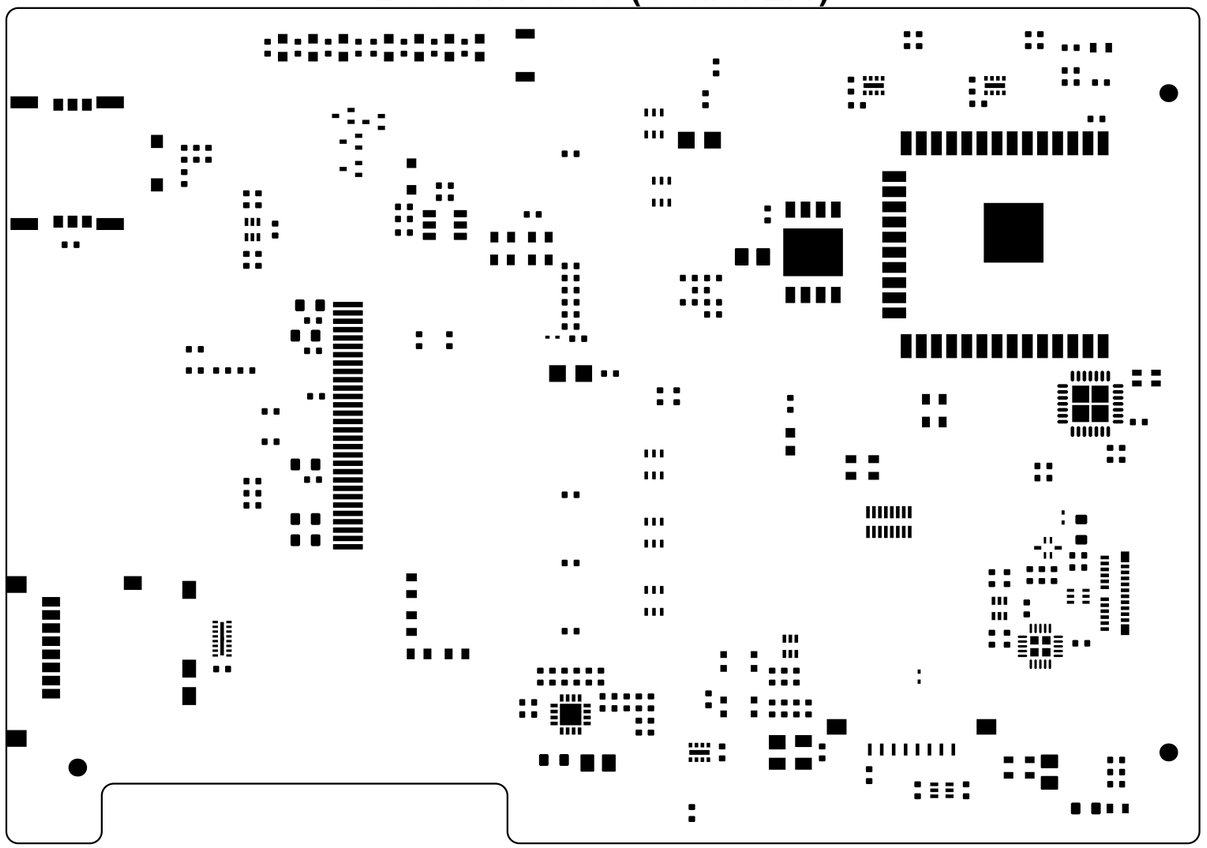
TITLE

Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 12 OF 23

Bottom Paste (Scale: 2:1)



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PROPRIETARY AND CONFIDENTIAL

NEXT ASSY	USED ON
APPLICATION	

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DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL±
ANGULAR: MACH± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN VSI		12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

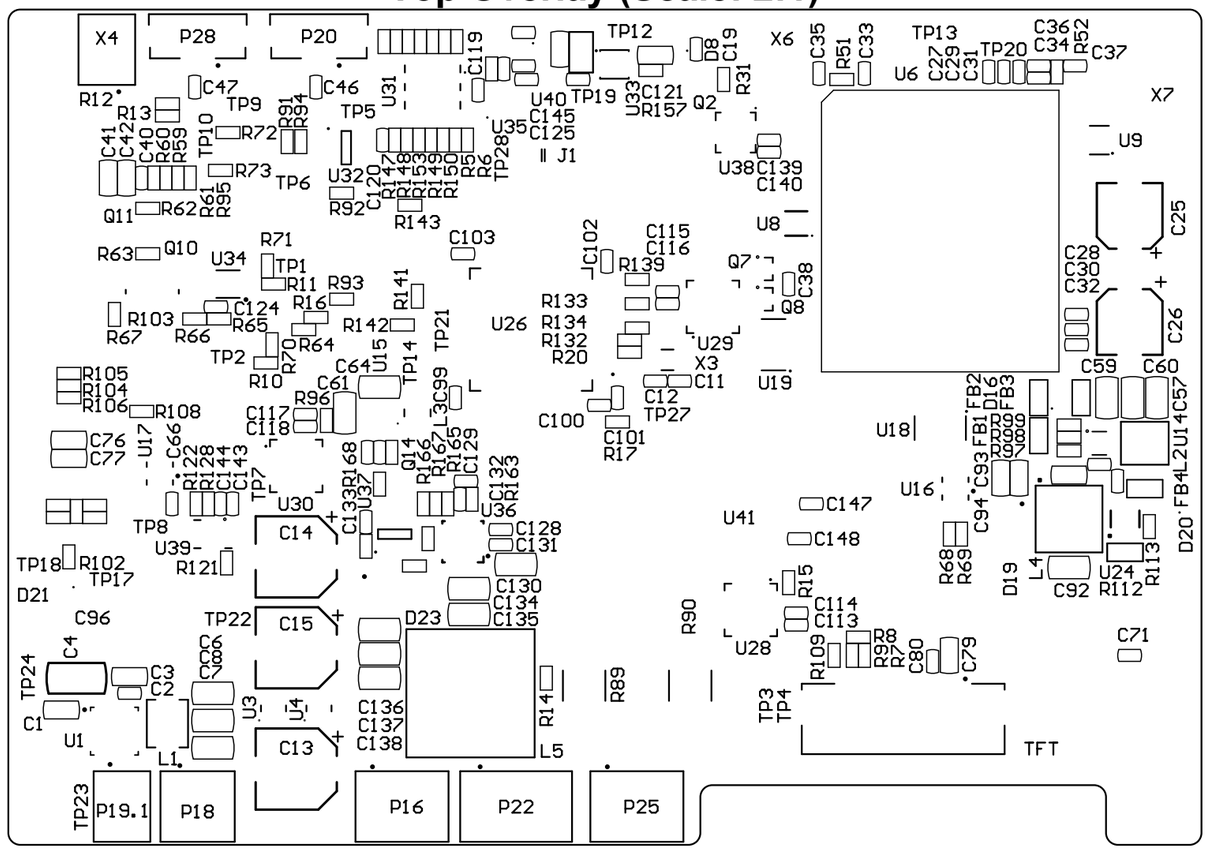
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 13 OF 23

Top Overlay (Scale: 2:1)



Top Overlay

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PROPRIETARY AND CONFIDENTIAL

NEXT ASSY	USED ON
APPLICATION	

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

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

Control Board

SIZE

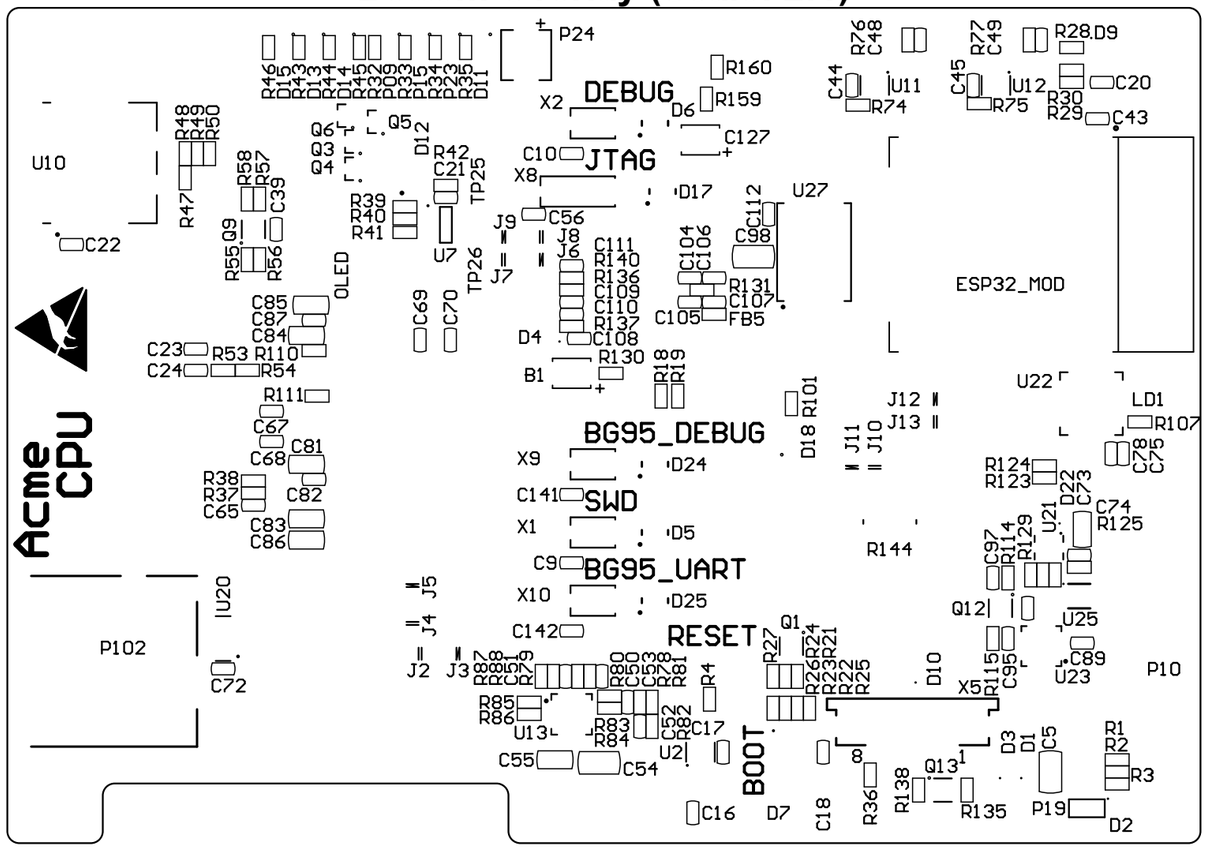
DWG. NO. C201

SCALE: 2:1

WEIGHT:

SHEET 14 OF 23

Bottom Overlay (Scale: 2:1)



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PROPRIETARY AND CONFIDENTIAL

NEXT ASSY	USED ON
APPLICATION	

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

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

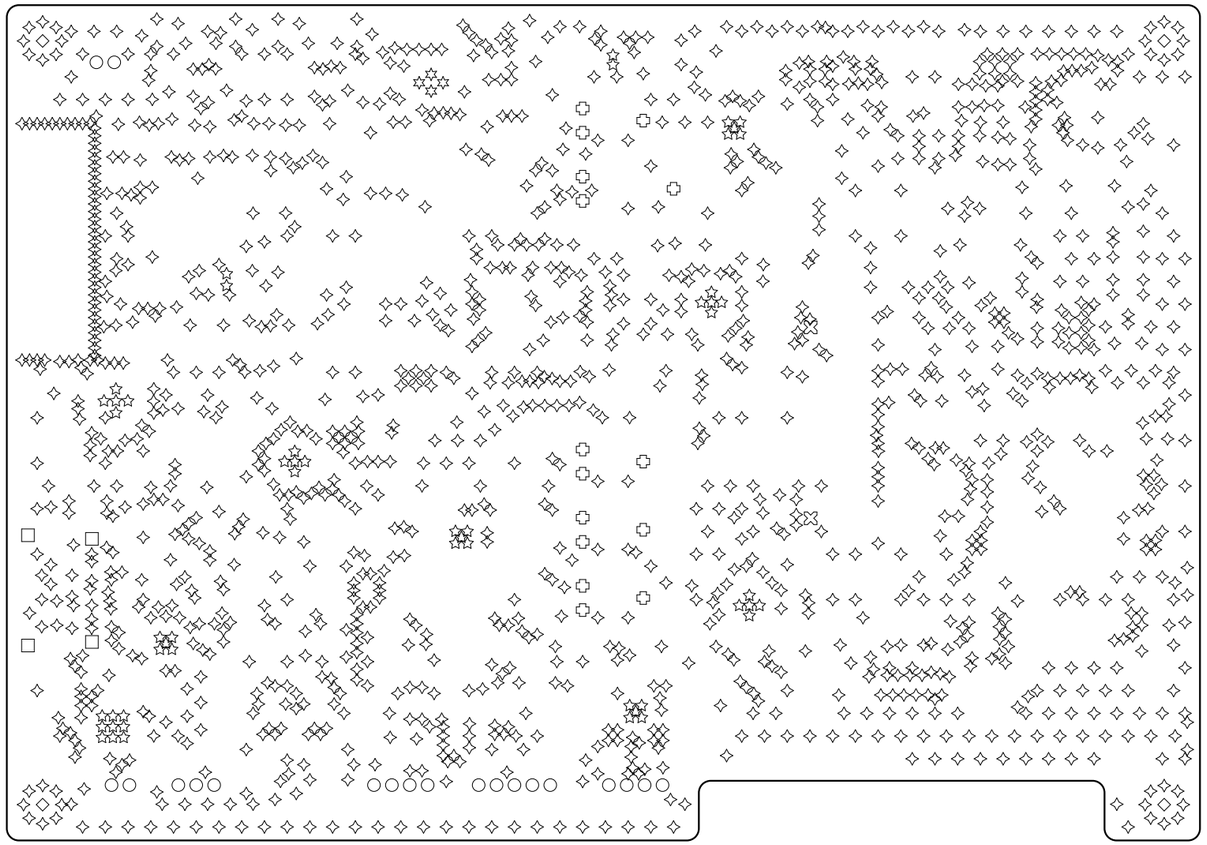
TITLE

Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 15 OF 23

Drill Drawing View



Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
□	4	0.60	Plated	
○	20	0.70	Plated	
◇	4	2.20	Plated	
⌘	2	0.40	Non-Plated	
⌖	15	0.99	Non-Plated	
✧	1553	0.15	Plated	
☆	53	0.30	Plated	
✡	4	0.20	Plated	

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NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL±
ANGULAR: MACH± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

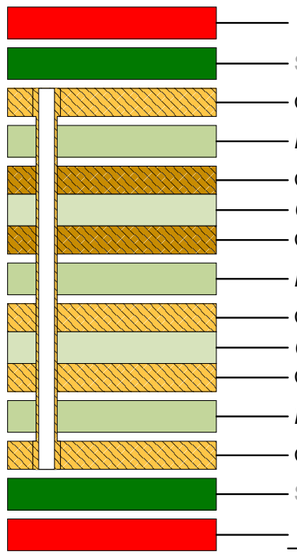
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 16 OF 23

Layer Stack Legend



Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
Surface Material	Top Solder	0.02mm	Solder Resist	Solder Mask	GTS
Copper	1-SIG-TOP	0.04mm		Signal	GTL
Prepreg		*0.11mm*	*FR-4*	*Dielectric*	
Copper	2-GND	0.04mm		Internal Plane	GP1
Core		*0.30mm*	*FR-4*	*Dielectric*	
Copper	3-PWR	0.04mm		Internal Plane	GP2
Prepreg		*0.15mm*	*FR-4*	*Dielectric*	
Copper	4-SIG-HOR	0.04mm		Signal	G1
Core		*0.30mm*	*FR-4*	*Dielectric*	
Copper	5-SIG-VERT	0.04mm		Signal	G2
Prepreg		*0.11mm*	*FR-4*	*Dielectric*	
Copper	6-GND-BOT	0.04mm		Signal	GBL
Surface Material	Bottom Solder	0.02mm	Solder Resist	Solder Mask	GBS
	Bottom Overlay			Legend	GBO

Total thickness: 1.21mm

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NEXT ASSY | USED ON

APPLICATION

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THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

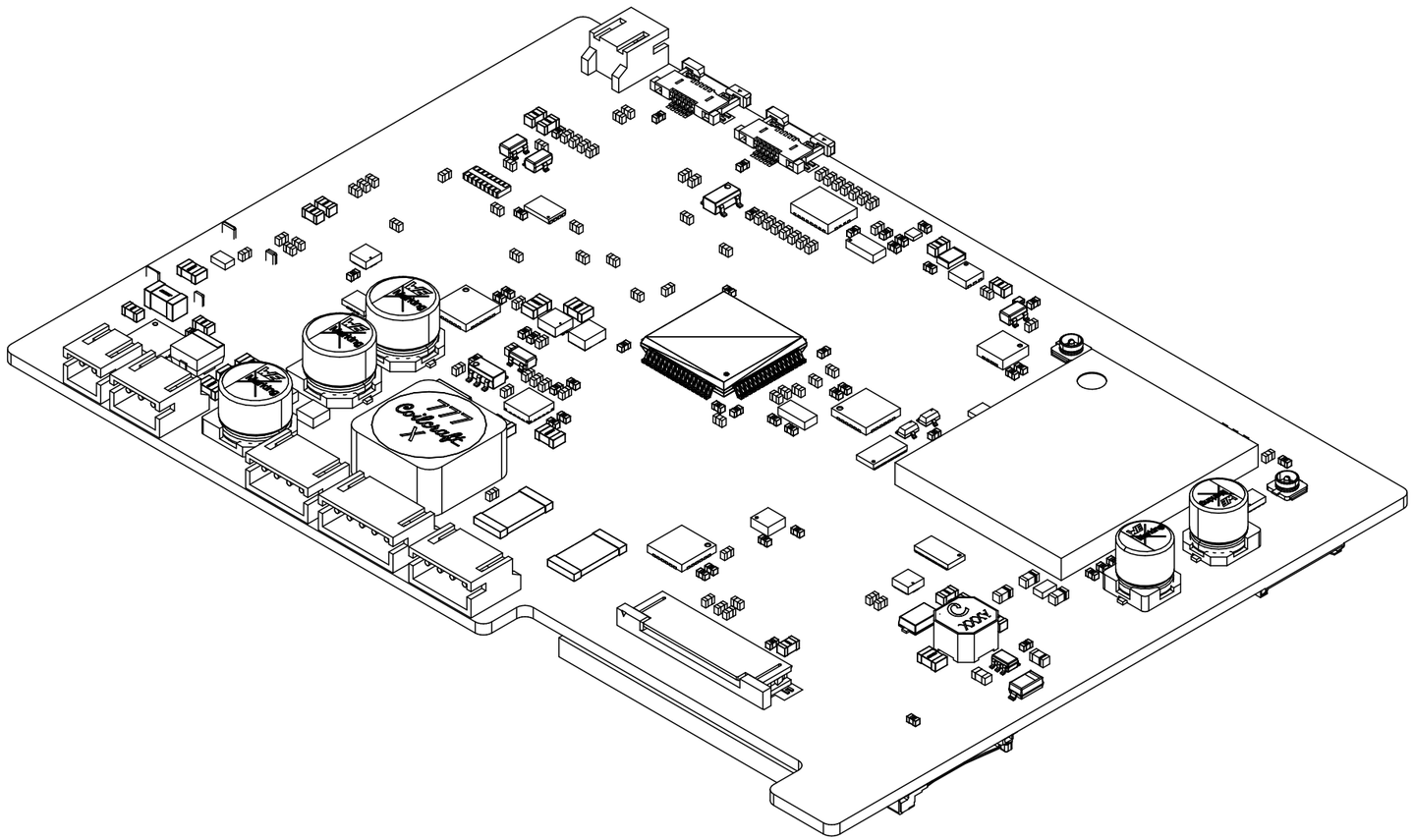
TITLE

Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 17 OF 23

View from Front side (Scale 2:1)



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NEXT ASSY	USED ON
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TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

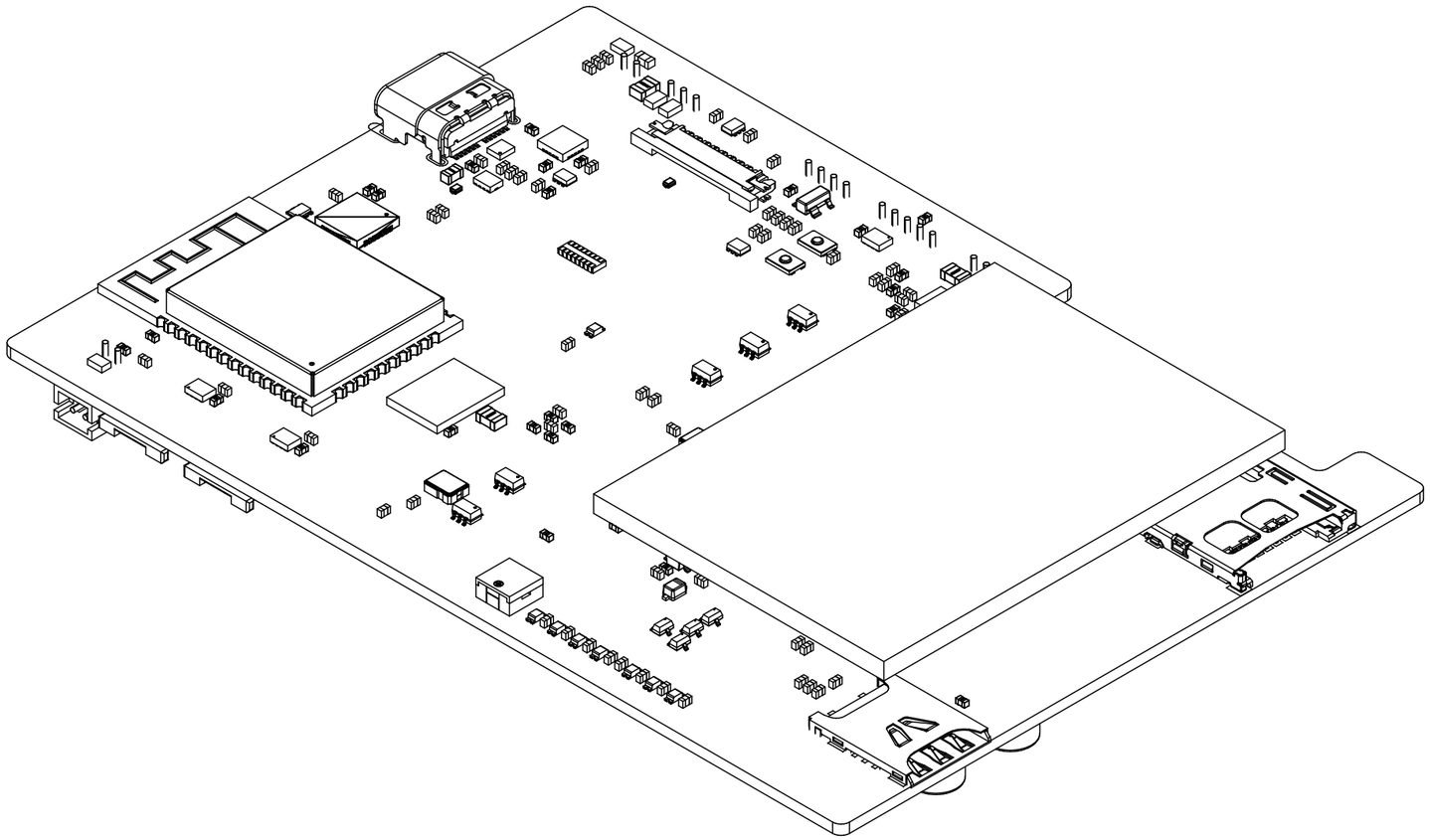
TITLE

Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 18 OF 23

View from Back side (Scale 2:1)



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ANGULAR: MACH± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

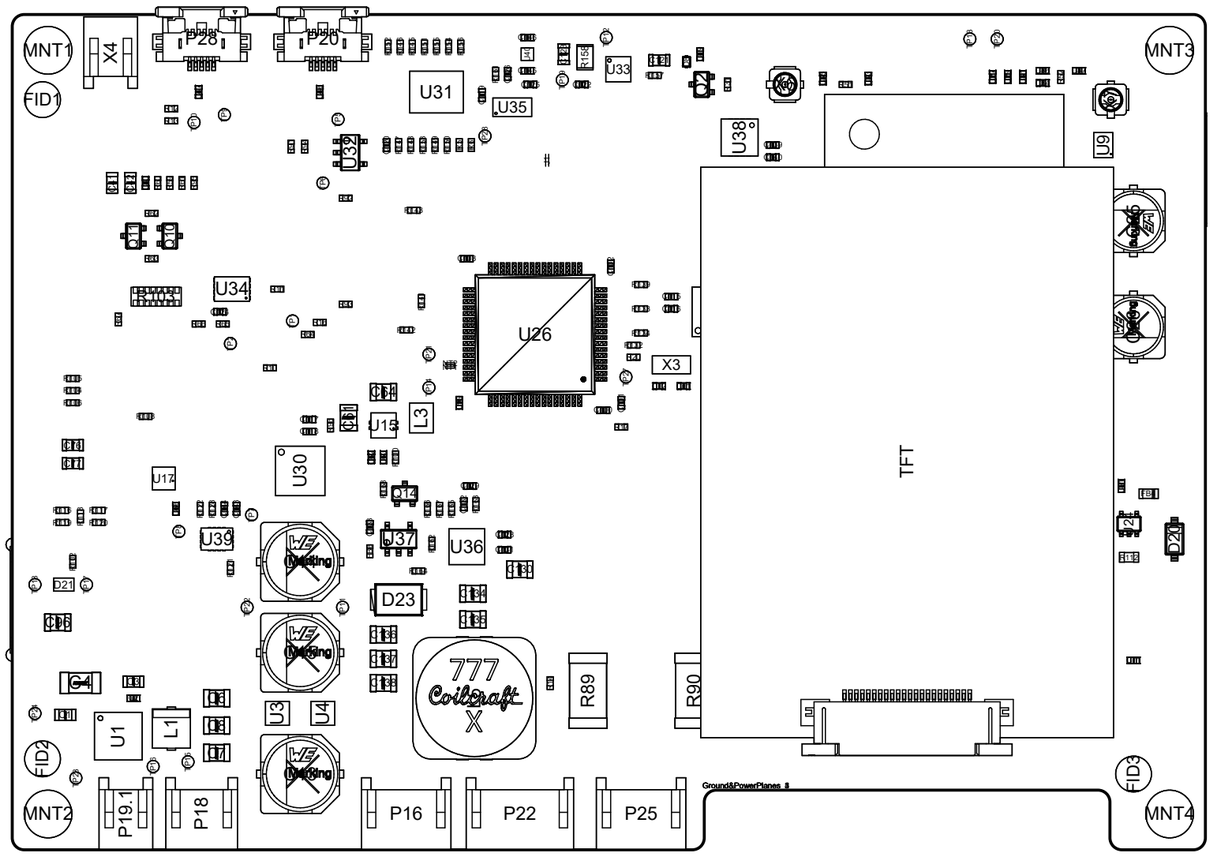
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 19 OF 23

View from Top side (Scale 2:1)



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NEXT ASSY	USED ON
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FRACTIONAL±
ANGULAR: MACH± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

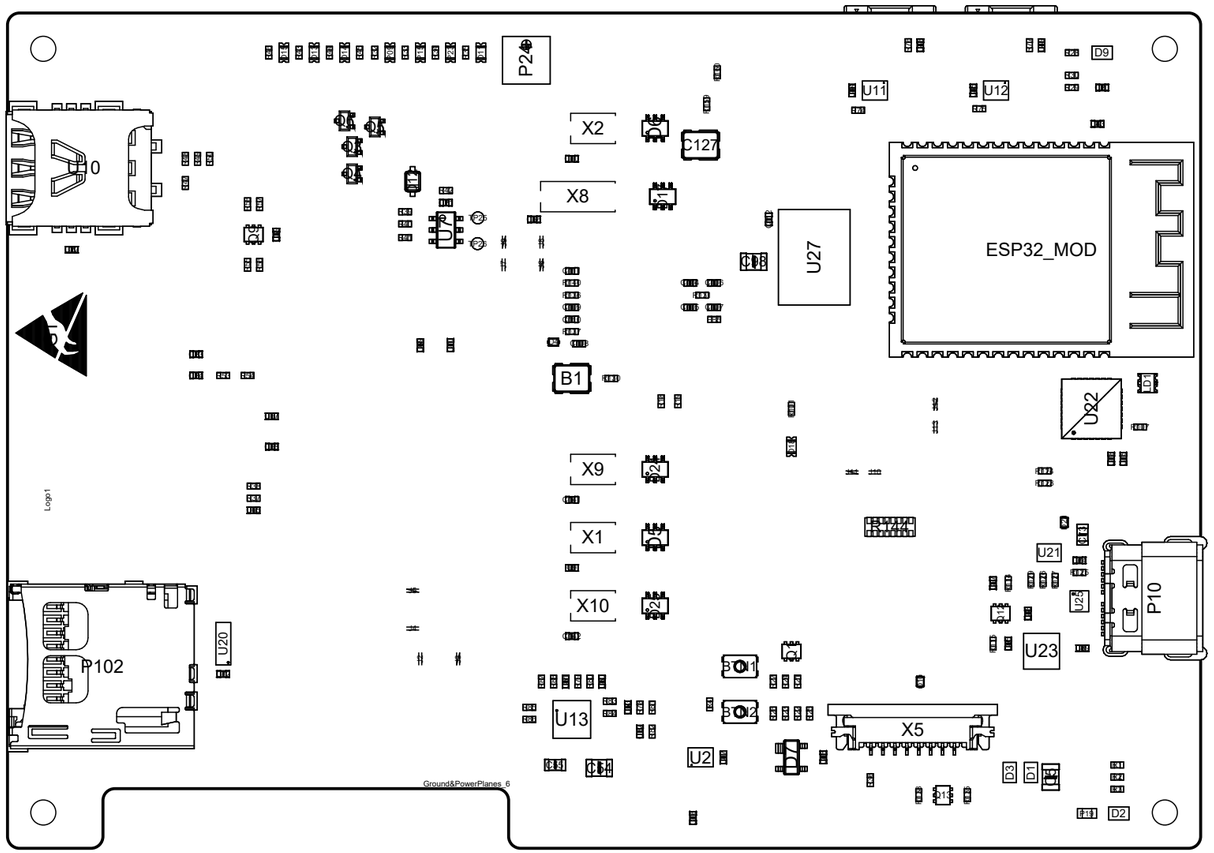
TITLE

Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 20 OF 23

View from Bottom side (Scale 2:1)



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NEXT ASSY	USED ON
APPLICATION	

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

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

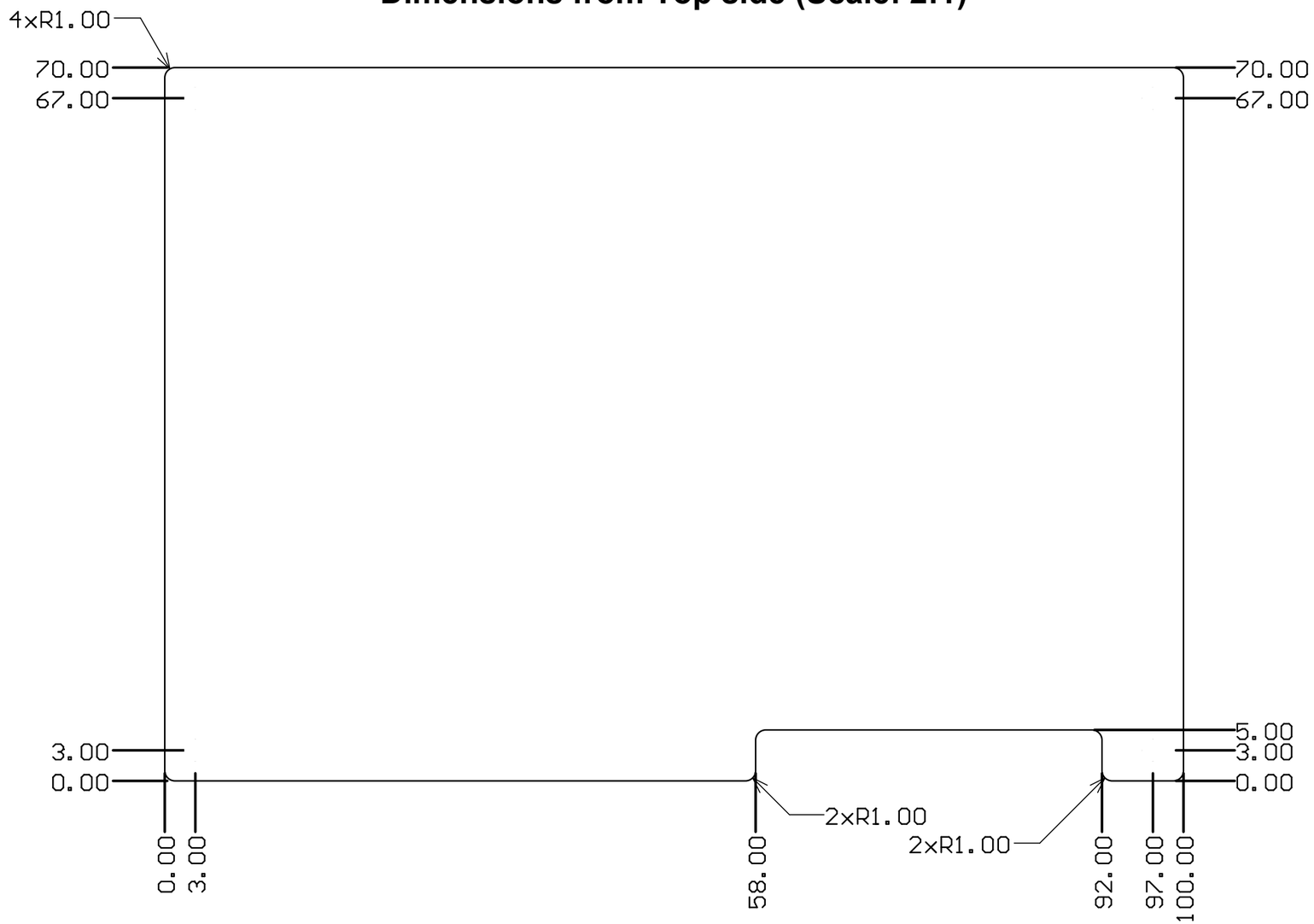
TITLE

Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 21 OF 23

Dimensions from Top side (Scale: 2:1)



Dimensions

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL± ANGULAR: MACH± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN VSI		12/22/2020
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

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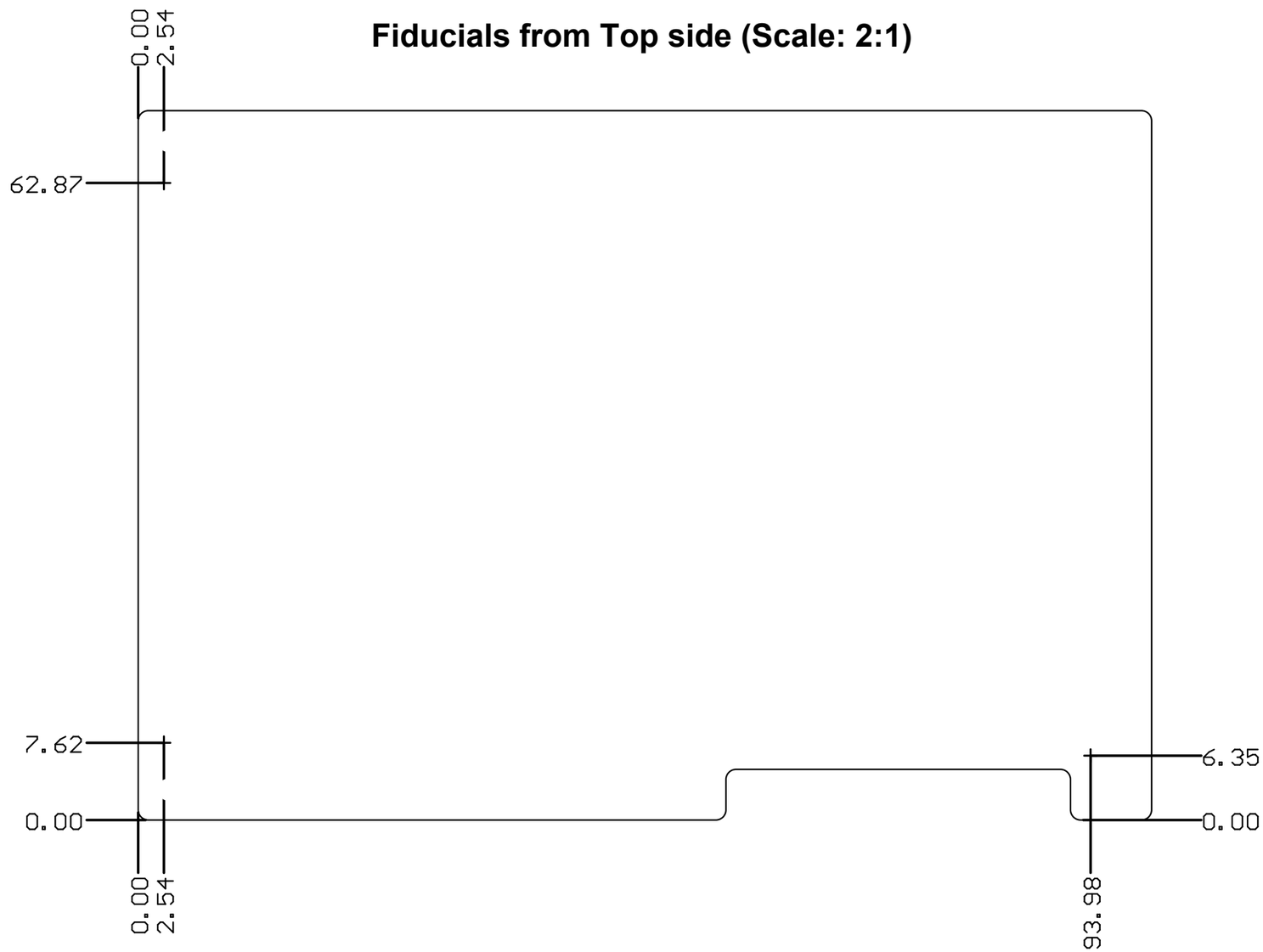
Acme CPU

TITLE

Control Board

SIZE	DWG. NO.	
	C201	
SCALE: 2:1	WEIGHT:	SHEET 22 OF 23

Fiducials from Top side (Scale: 2:1)



Fiducials

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NEXT ASSY	USED ON
APPLICATION	

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

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN VSI		12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

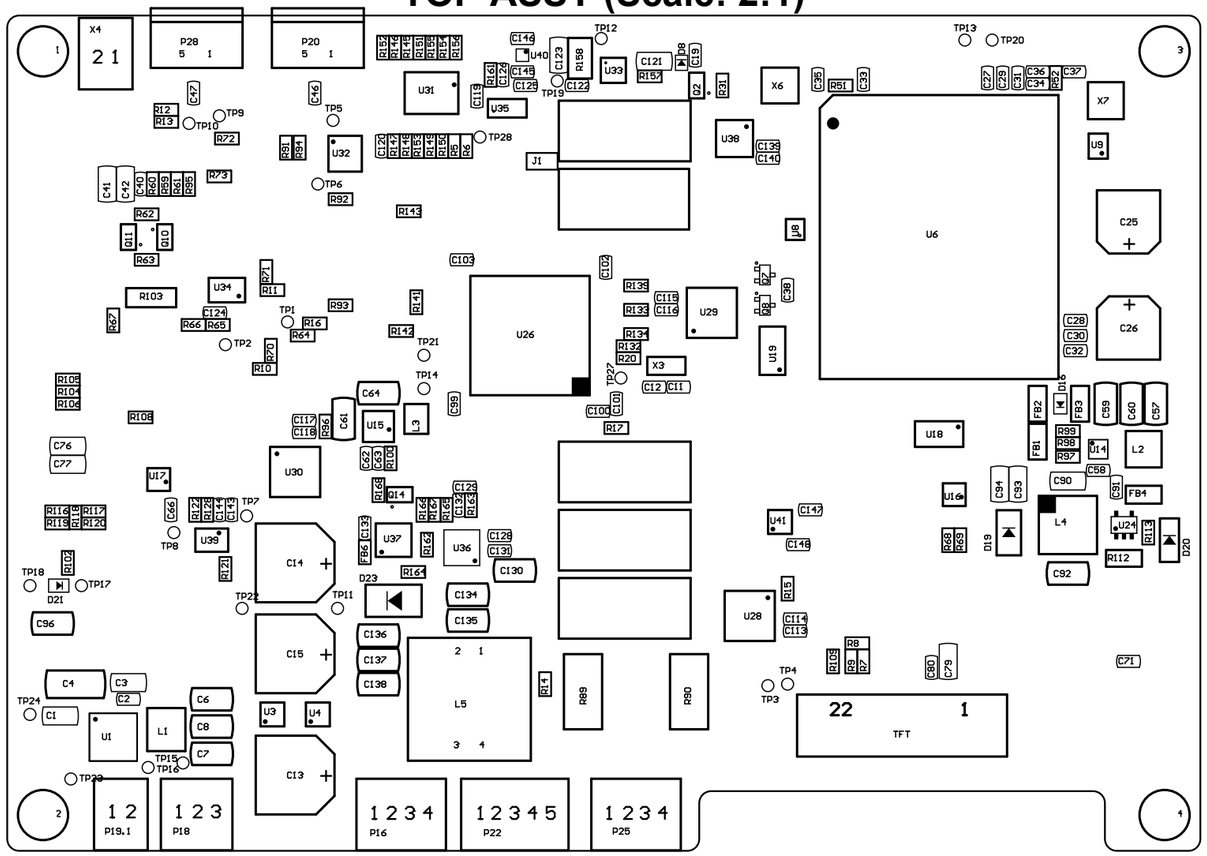
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 23 OF 23

TOP ASSY (Scale: 2:1)



TOP ASSY

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NEXT ASSY	USED ON
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ANGULAR: MACH± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN VSI		12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

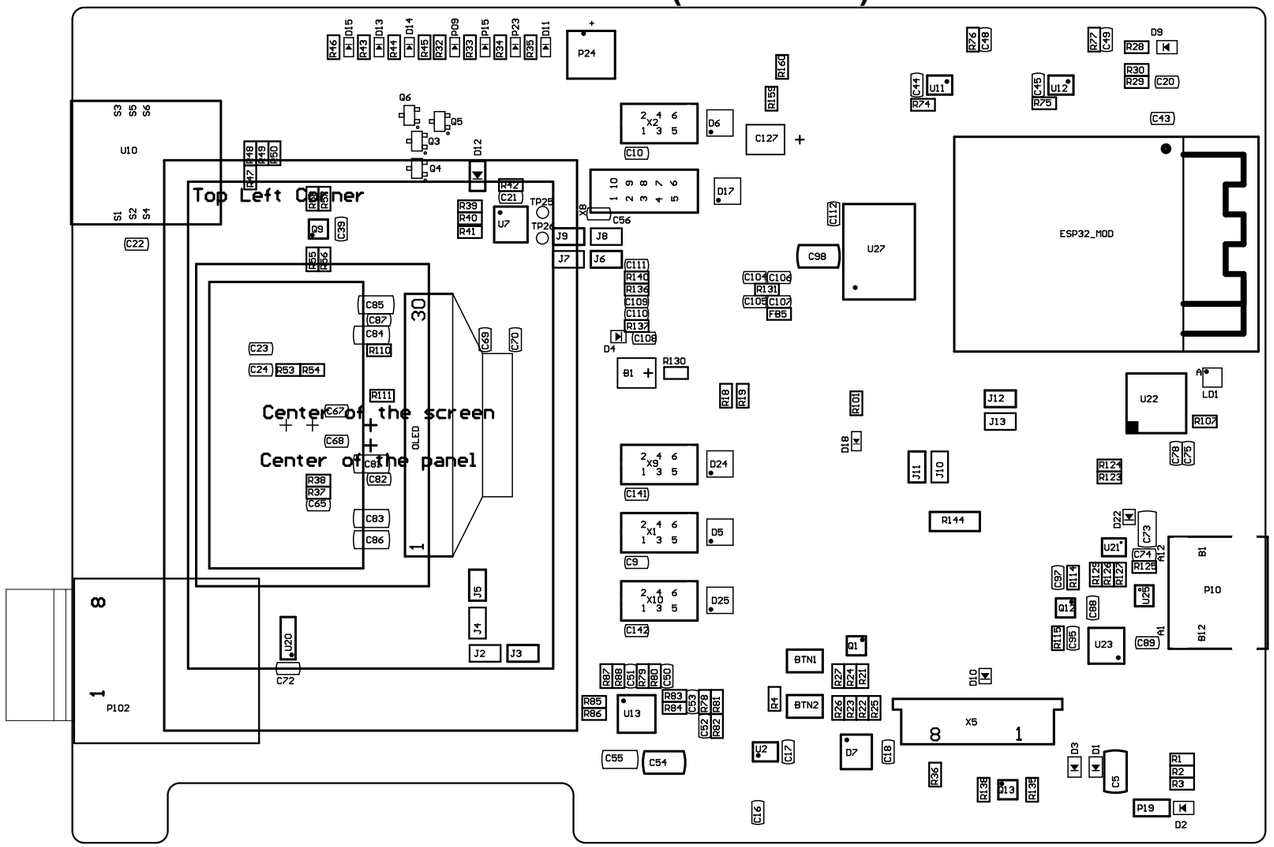
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 1 OF 23

BOT ASSY (Scale: 2:1)



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ANGULAR: MACH± BEND ±
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THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN VSI		12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

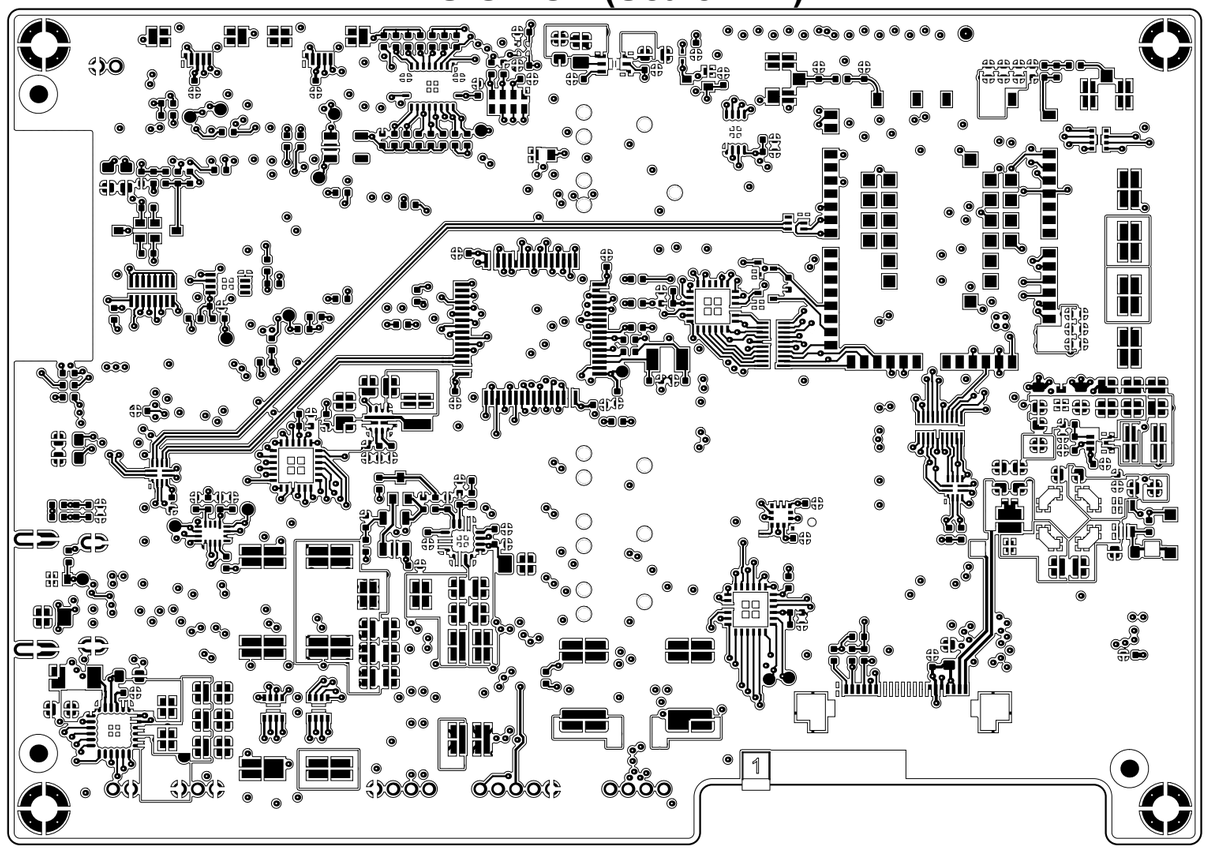
TITLE

Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 2 OF 23

1-SIG-TOP (Scale: 2:1)



1-SIG-TOP

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NEXT ASSY	USED ON
APPLICATION	

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

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

Control Board

SIZE

DWG. NO. C201

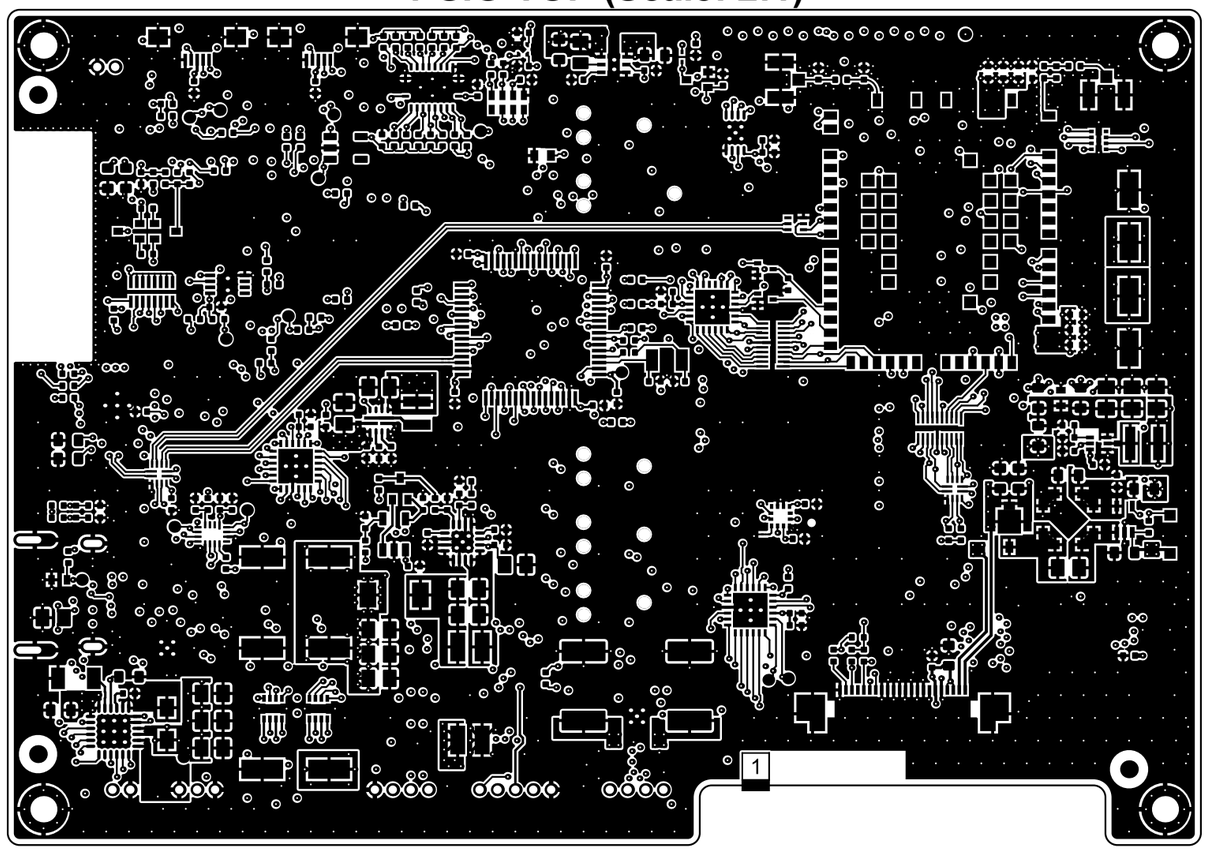
SCALE: 2:1

WEIGHT:

SHEET 3 OF 23

A B C D

1-SIG-TOP (Scale: 2:1)



1-SIG-TOP

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INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

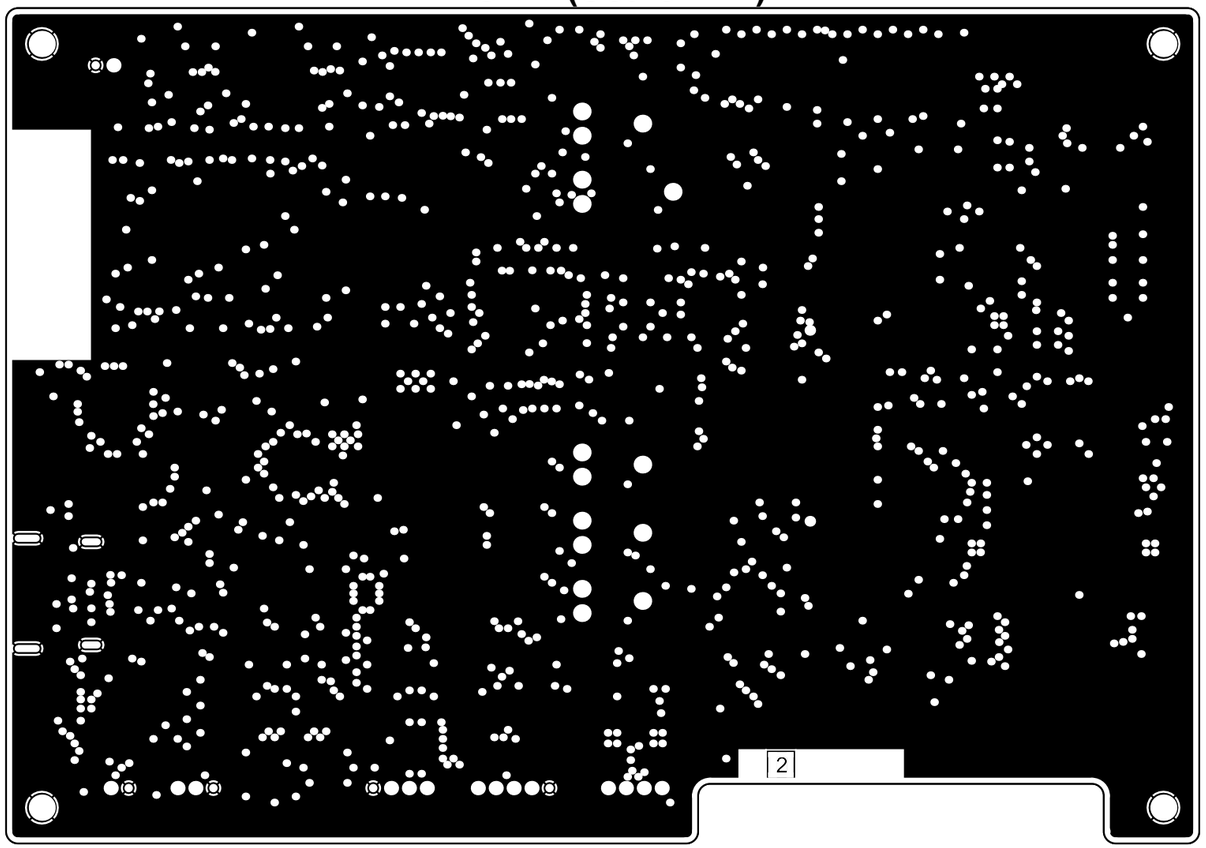
TITLE

Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 4 OF 23

2-GND (Scale: 2:1)



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INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 5 OF 23

3-PWR (Scale: 2:1)

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MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

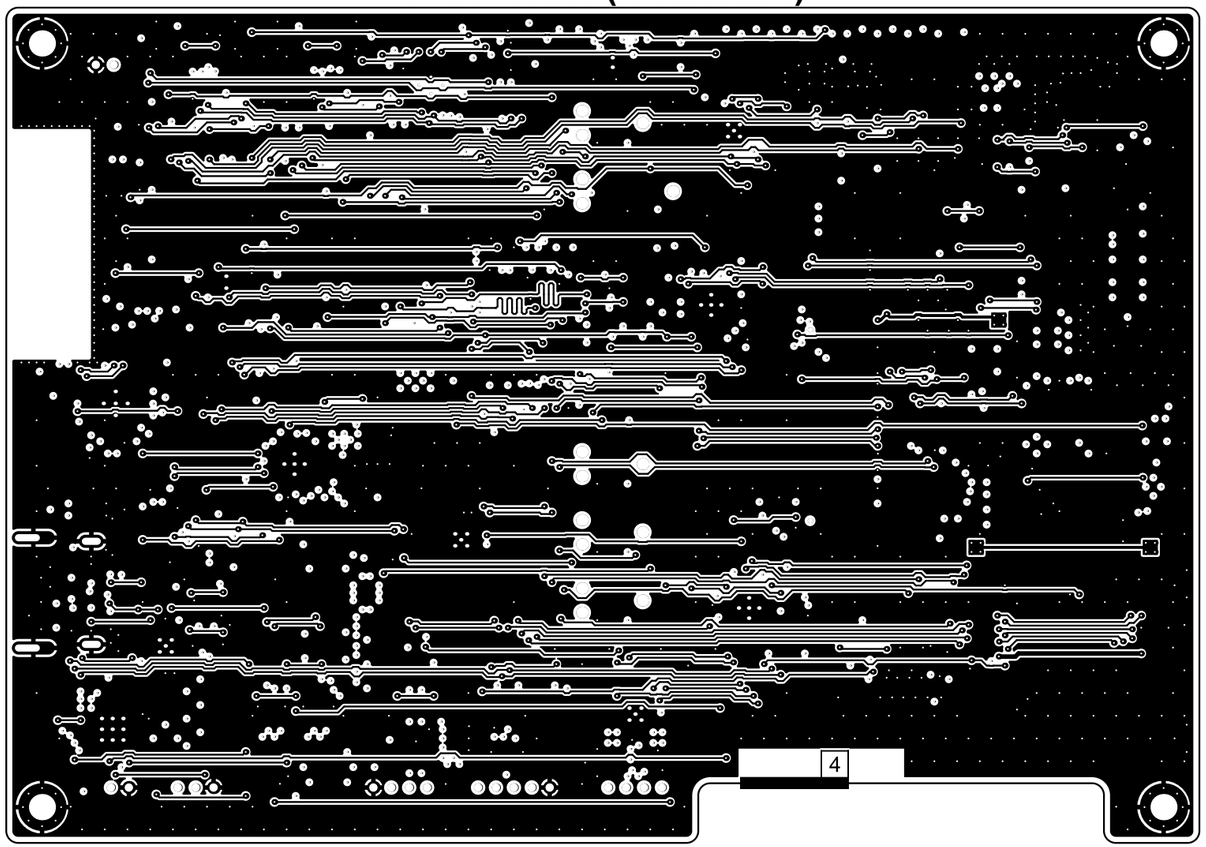
TITLE

Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 6 OF 23

4-SIG-HOR (Scale: 2:1)



4-SIG-HOR

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INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

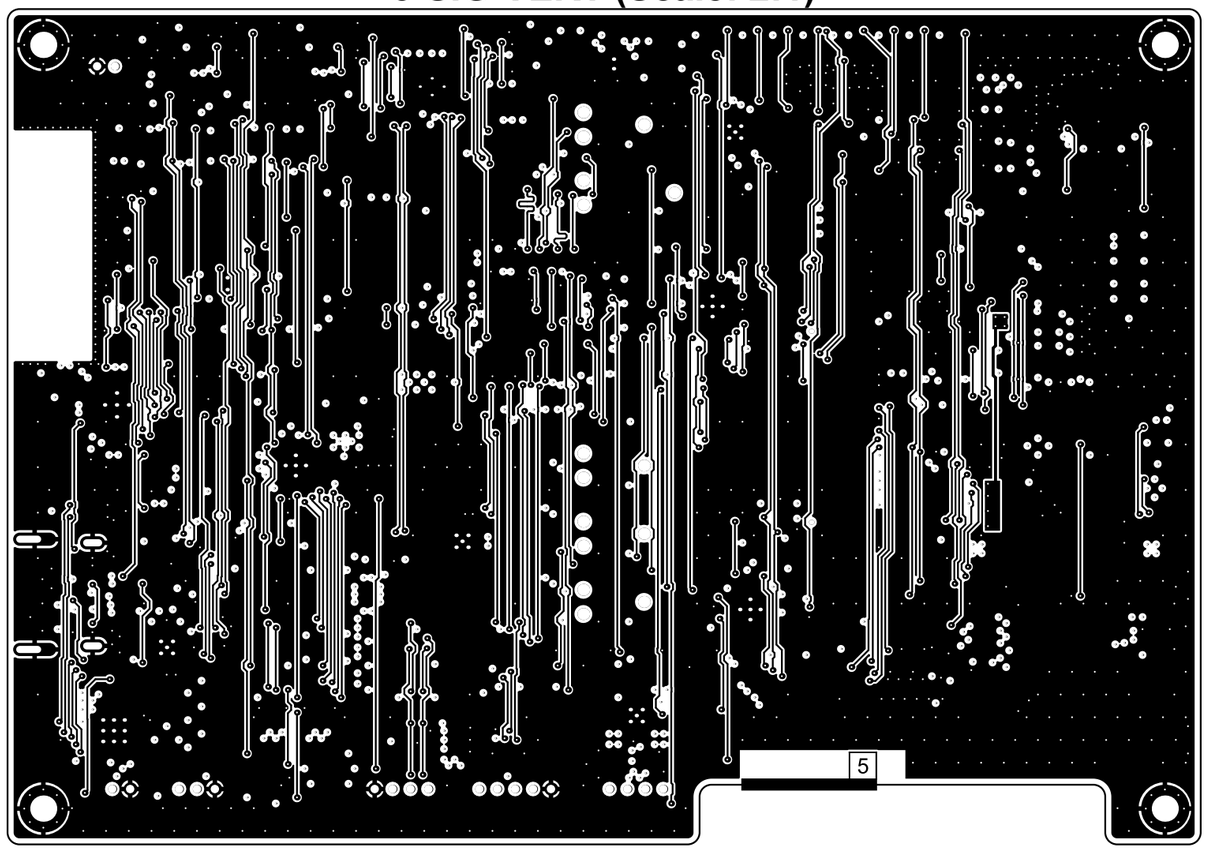
Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 7 OF 23

A B C D

5-SIG-VERT (Scale: 2:1)



5-SIG-VERT

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THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

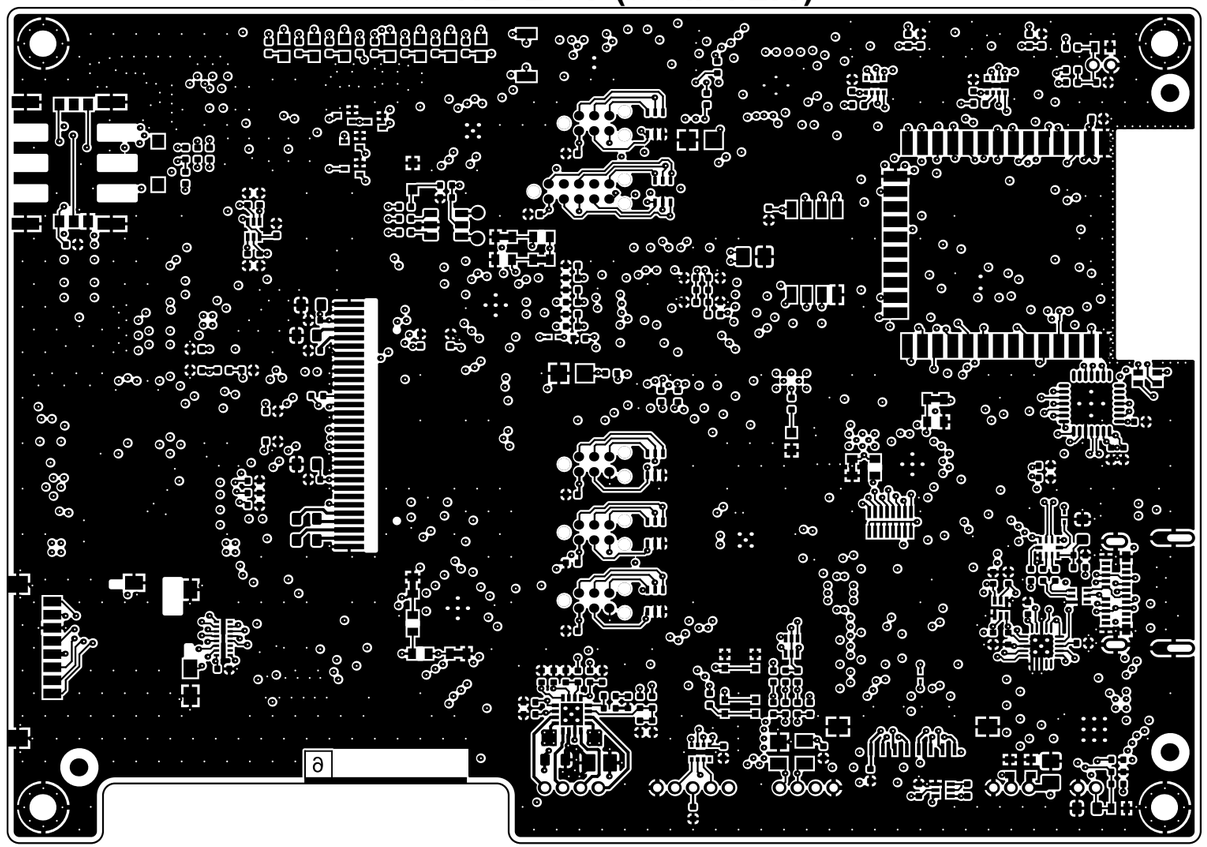
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 8 OF 23

6-GND-BOT (Scale: 2:1)



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	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

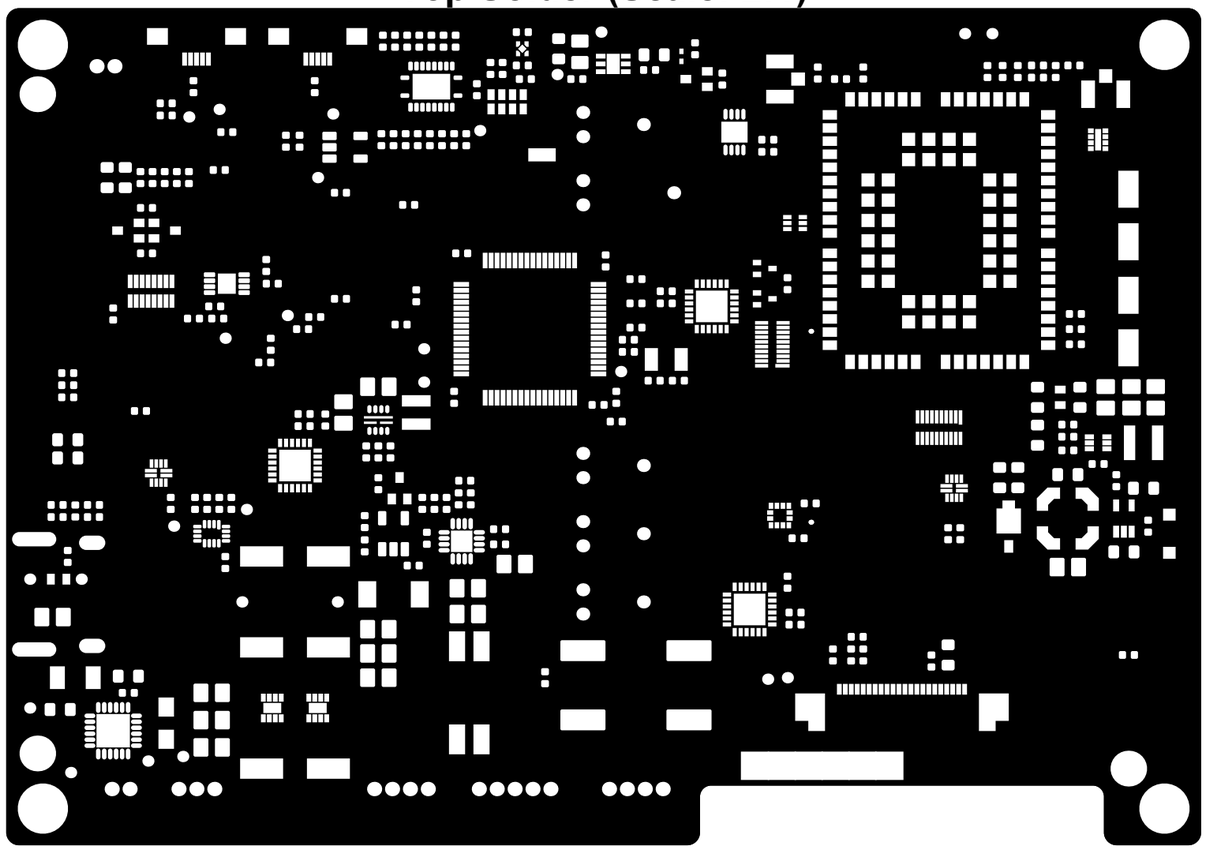
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 9 OF 23

Top Solder (Scale: 2:1)



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ANGULAR: MACH± BEND ±
TWO PLACE DECIMAL ±
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MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

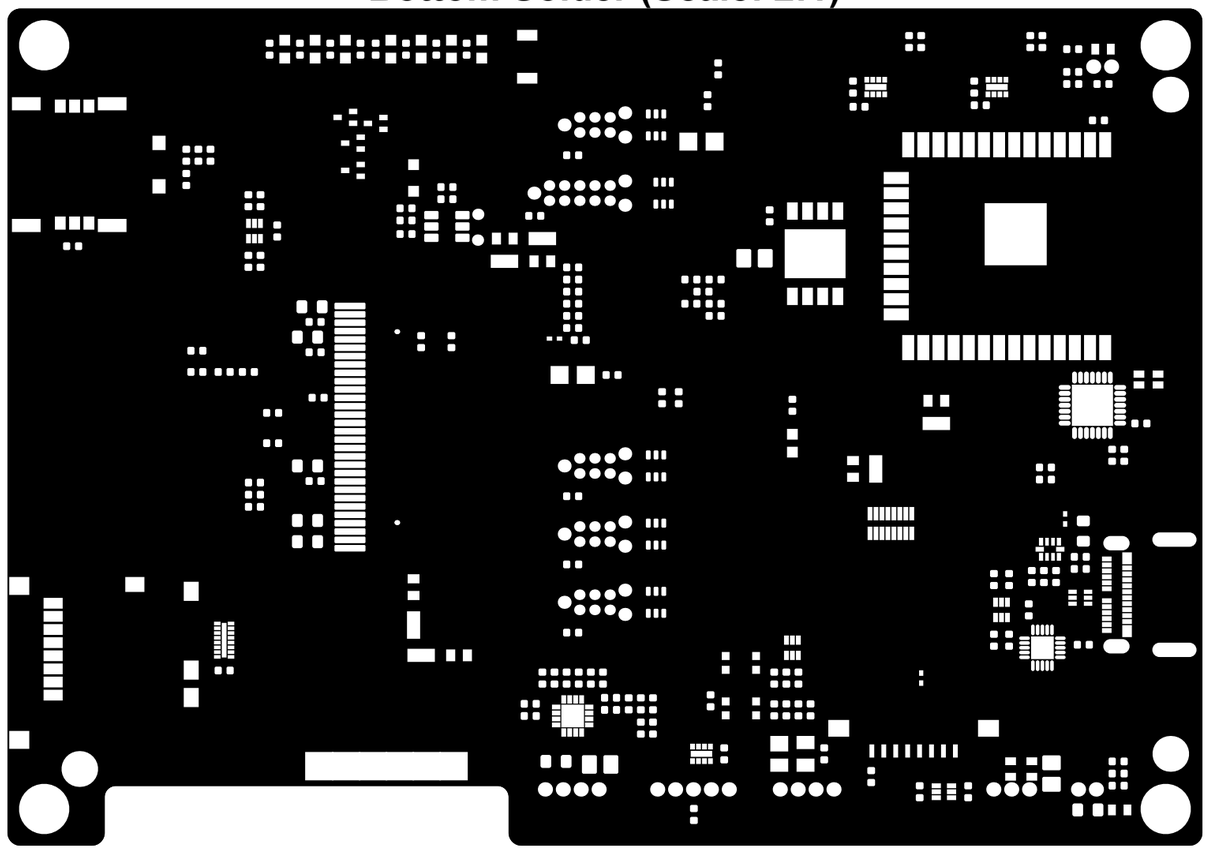
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 10 OF 23

Bottom Solder (Scale: 2:1)



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DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL±
ANGULAR: MACH± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

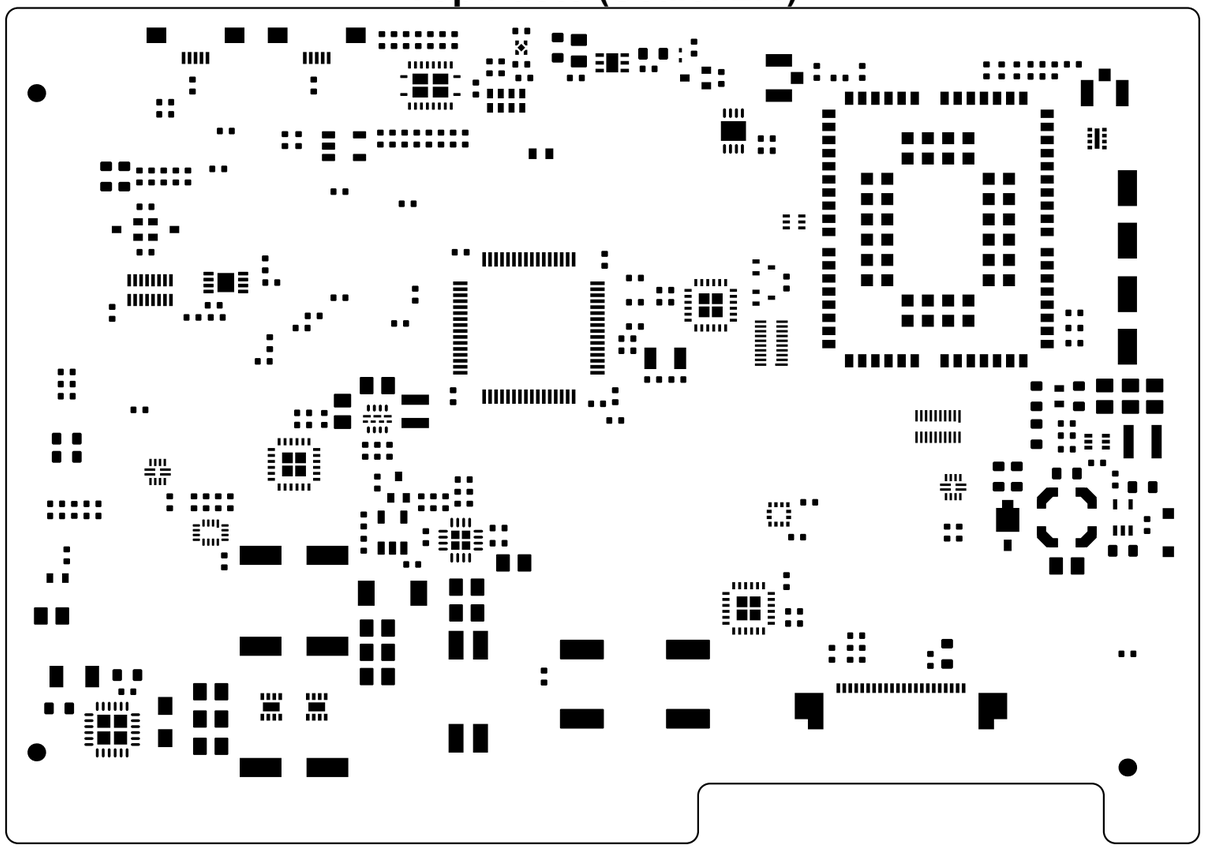
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 11 OF 23

Top Paste (Scale: 2:1)



Top Paste

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NEXT ASSY	USED ON
APPLICATION	

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ANGULAR: MACH± BEND ±
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INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
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ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

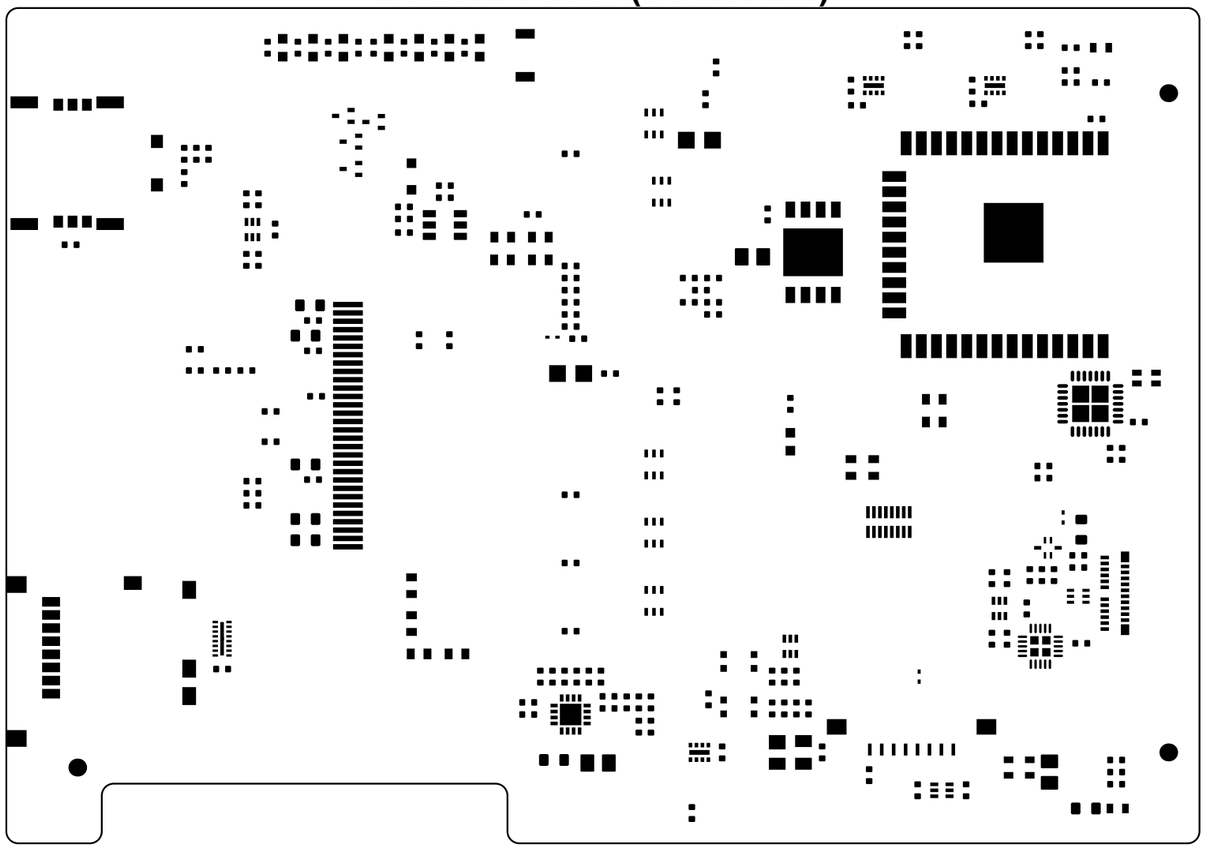
TITLE

Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 12 OF 23

Bottom Paste (Scale: 2:1)



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FINISH

DO NOT SCALE DRAWING

	NAME	DATE
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CHECKED		
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MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

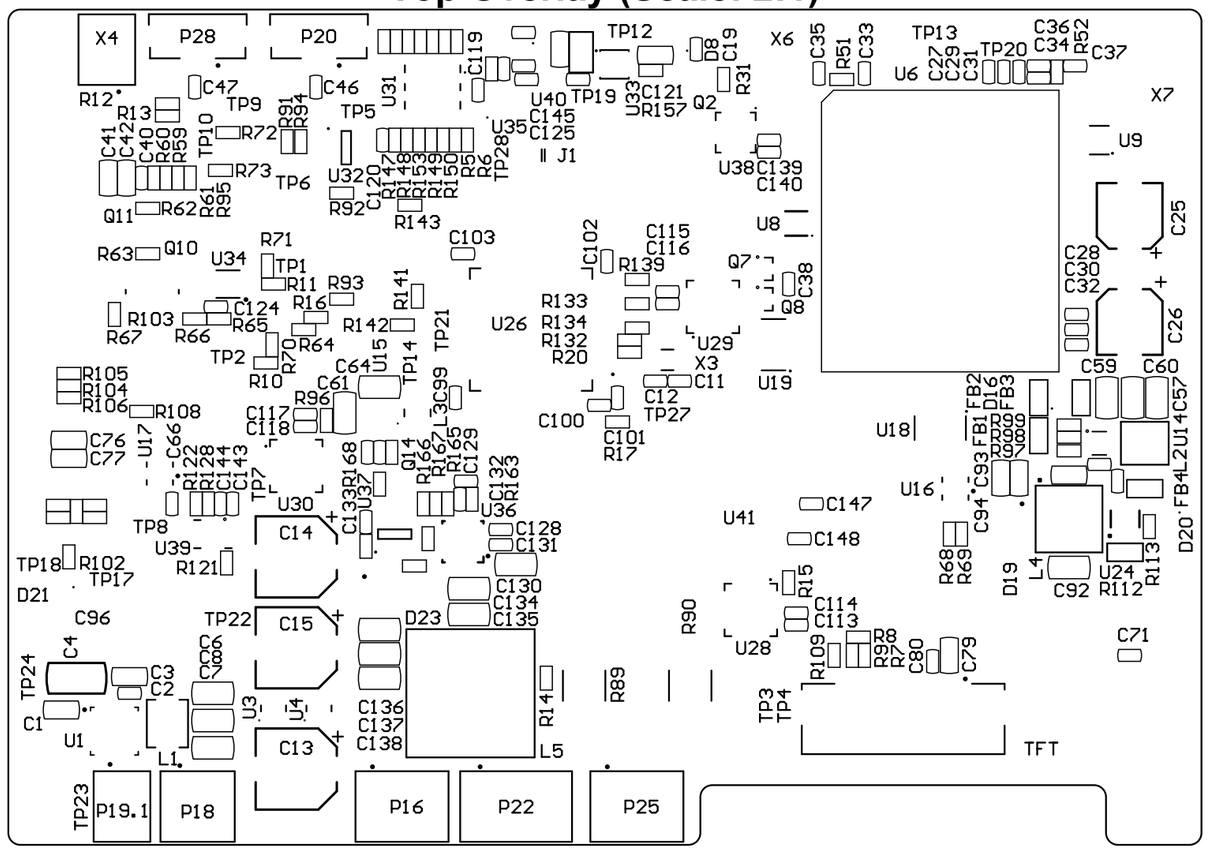
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 13 OF 23

Top Overlay (Scale: 2:1)



Top Overlay

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	NAME	DATE
DRAWN	VSI	12/22/2020
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ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

Control Board

SIZE

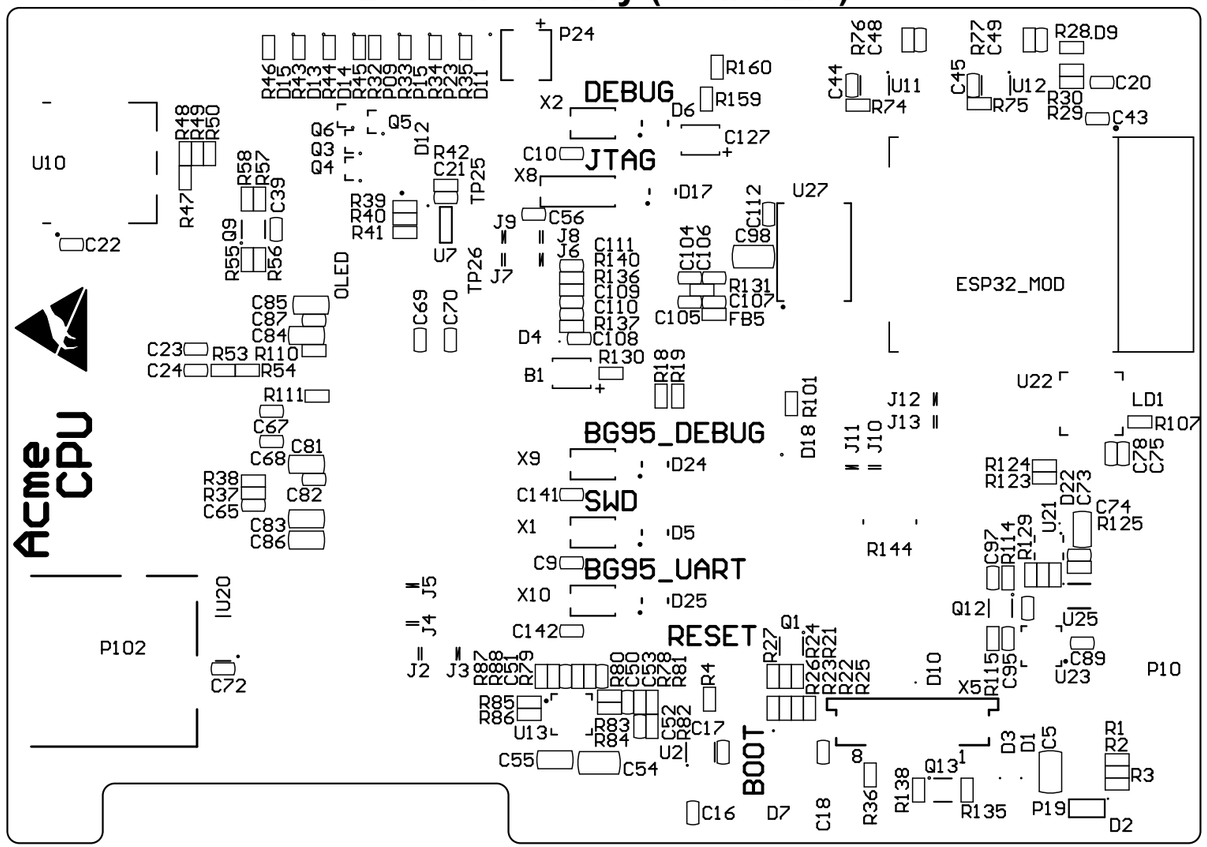
DWG. NO. C201

SCALE: 2:1

WEIGHT:

SHEET 14 OF 23

Bottom Overlay (Scale: 2:1)



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CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

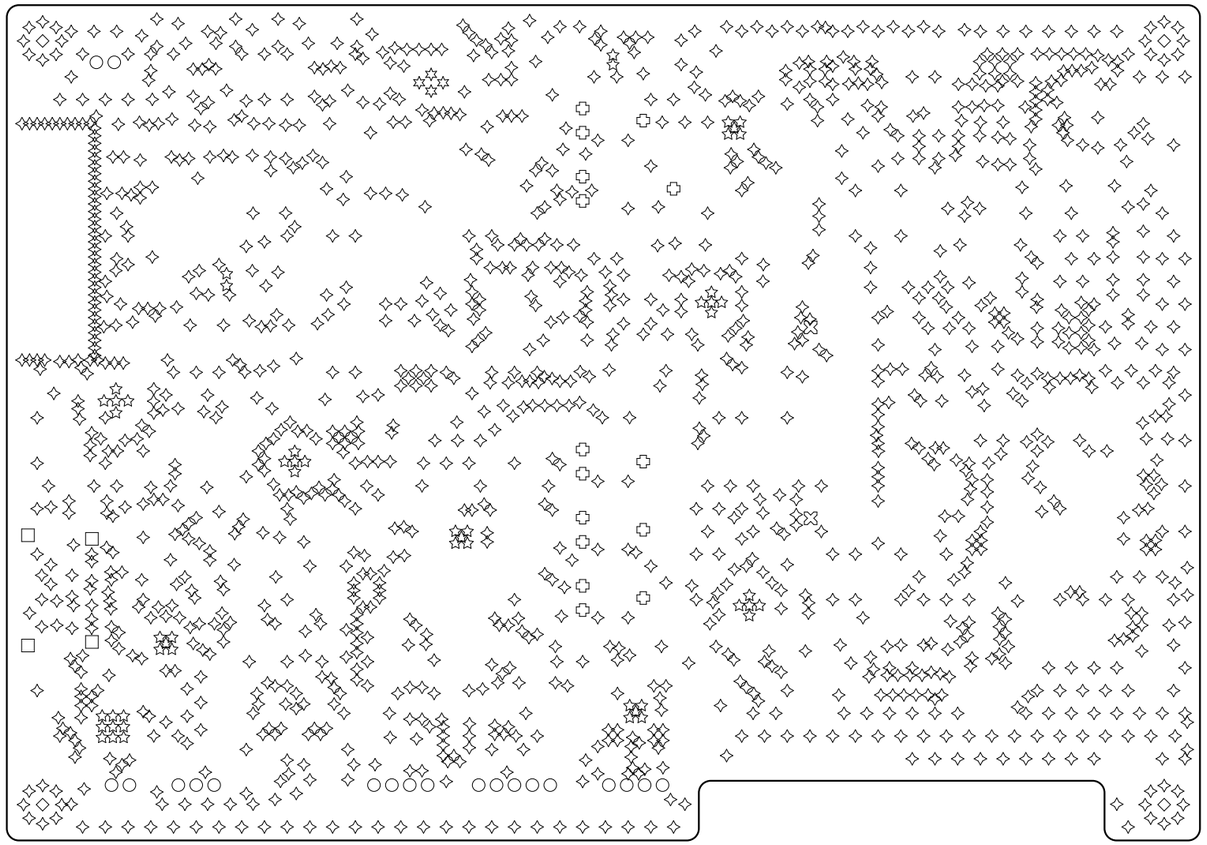
TITLE

Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 15 OF 23

Drill Drawing View



Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
□	4	0.60	Plated	
○	20	0.70	Plated	
◇	4	2.20	Plated	
⌘	2	0.40	Non-Plated	
⌖	15	0.99	Non-Plated	
✧	1553	0.15	Plated	
☆	53	0.30	Plated	
✡	4	0.20	Plated	

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ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

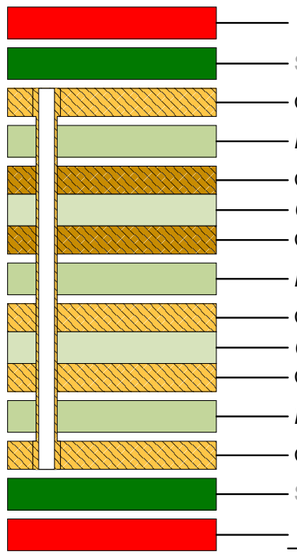
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 16 OF 23

Layer Stack Legend



Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
Surface Material	Top Solder	0.02mm	Solder Resist	Solder Mask	GTS
Copper	1-SIG-TOP	0.04mm		Signal	GTL
Prepreg		*0.11mm*	*FR-4*	*Dielectric*	
Copper	2-GND	0.04mm		Internal Plane	GP1
Core		*0.30mm*	*FR-4*	*Dielectric*	
Copper	3-PWR	0.04mm		Internal Plane	GP2
Prepreg		*0.15mm*	*FR-4*	*Dielectric*	
Copper	4-SIG-HOR	0.04mm		Signal	G1
Core		*0.30mm*	*FR-4*	*Dielectric*	
Copper	5-SIG-VERT	0.04mm		Signal	G2
Prepreg		*0.11mm*	*FR-4*	*Dielectric*	
Copper	6-GND-BOT	0.04mm		Signal	GBL
Surface Material	Bottom Solder	0.02mm	Solder Resist	Solder Mask	GBS
	Bottom Overlay			Legend	GBO

Total thickness: 1.21mm

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NEXT ASSY | USED ON

APPLICATION

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THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

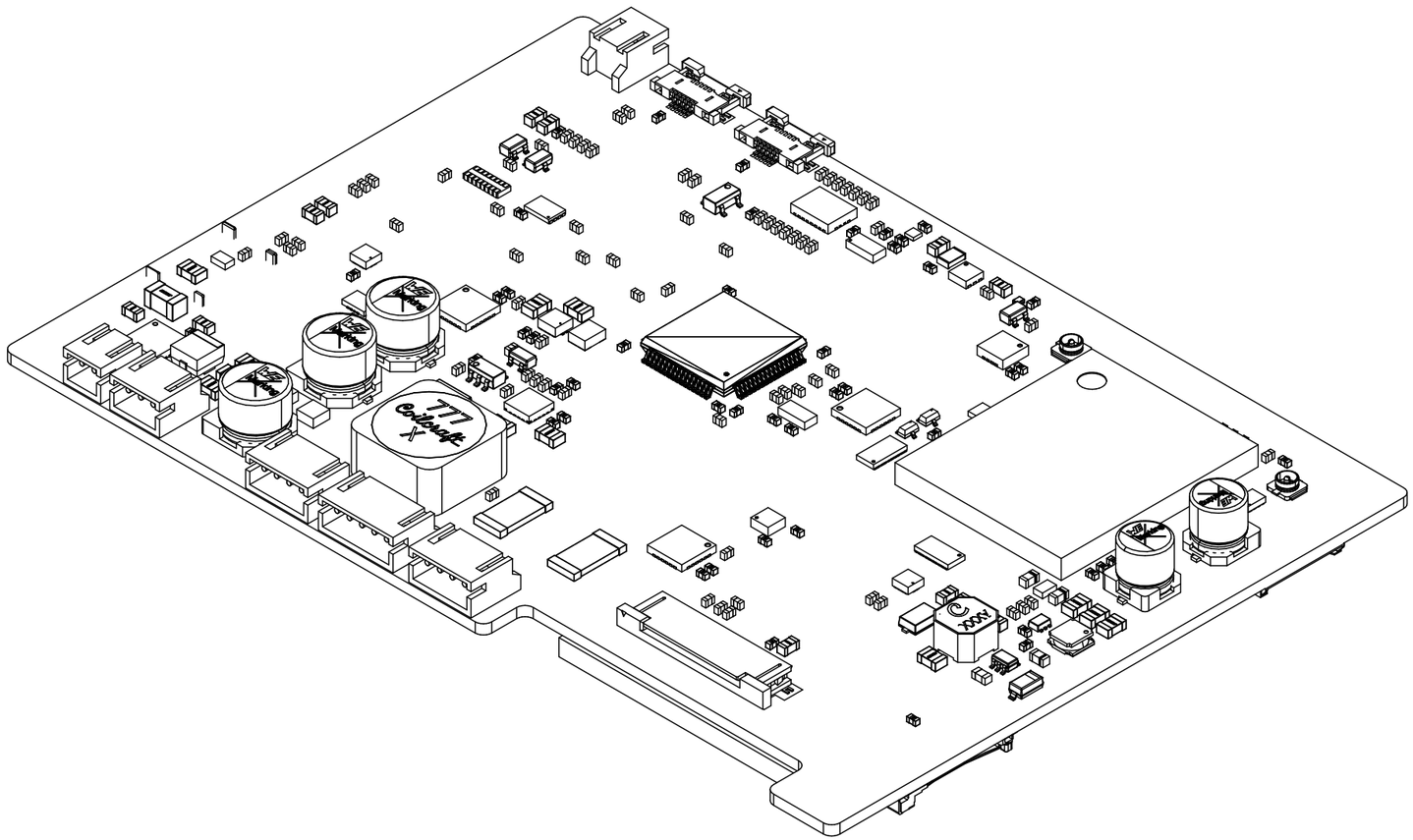
TITLE

Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 17 OF 23

View from Front side (Scale 2:1)



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NEXT ASSY	USED ON
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INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

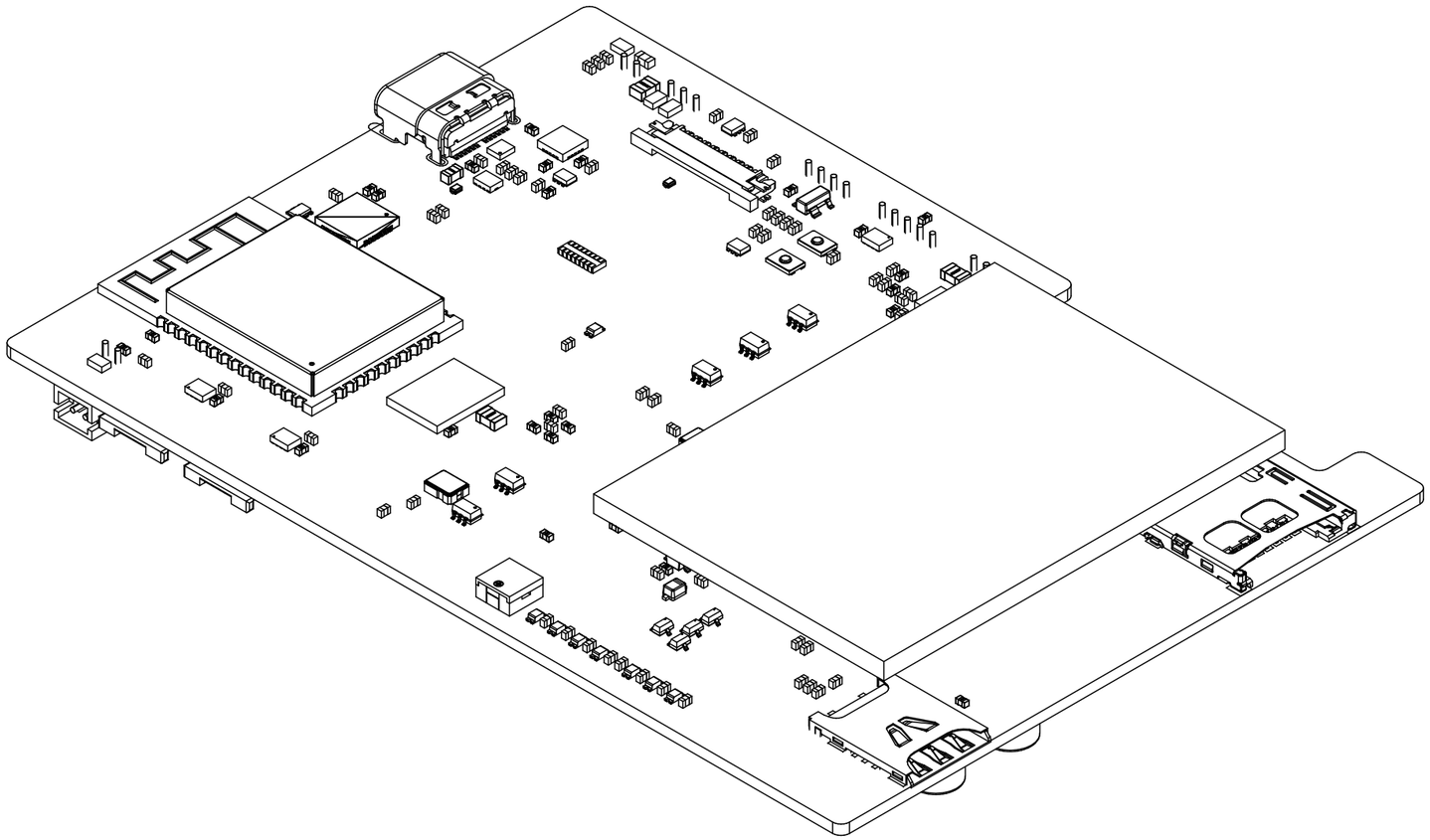
Acme CPU

TITLE

Control Board

SIZE	DWG. NO.	
	C201	
SCALE: 2:1	WEIGHT:	SHEET 18 OF 23

View from Back side (Scale 2:1)



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ANGULAR: MACH± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

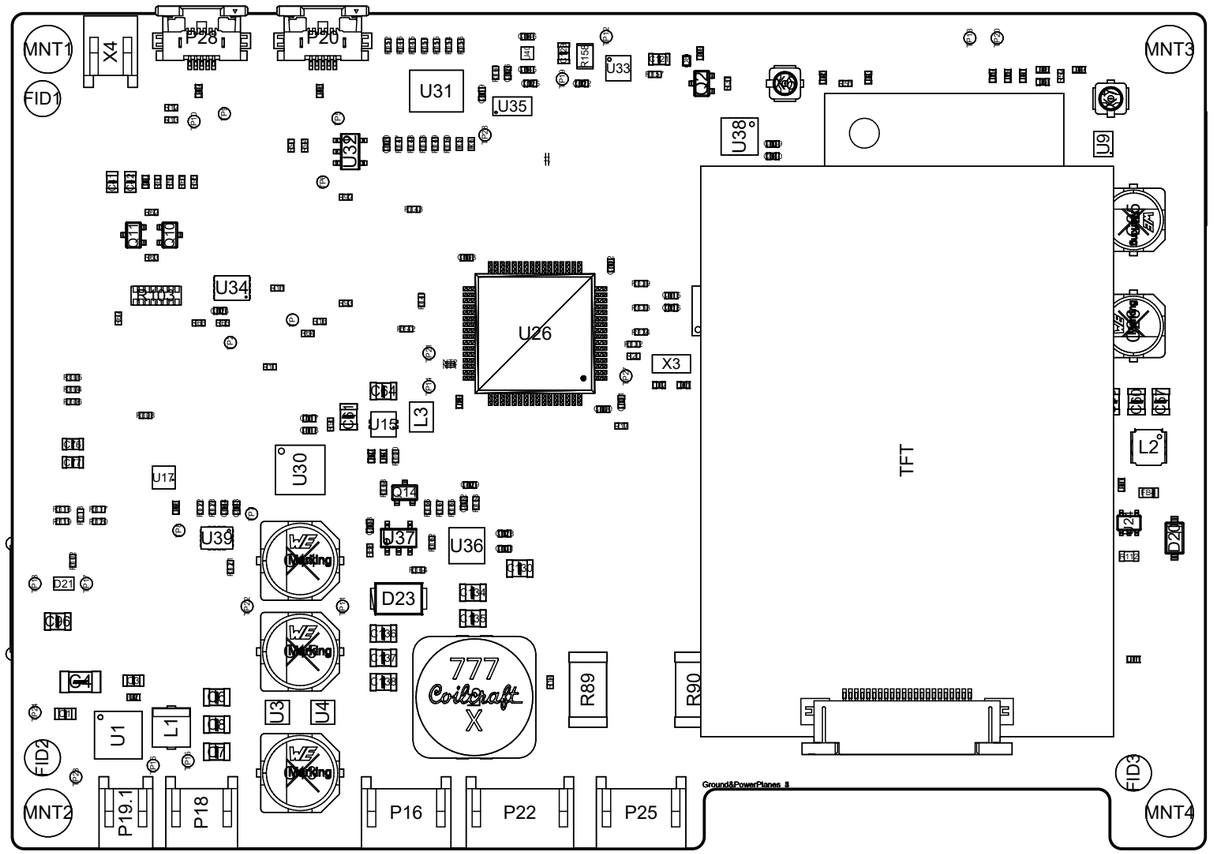
Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 19 OF 23

View from Top side (Scale 2:1)



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TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

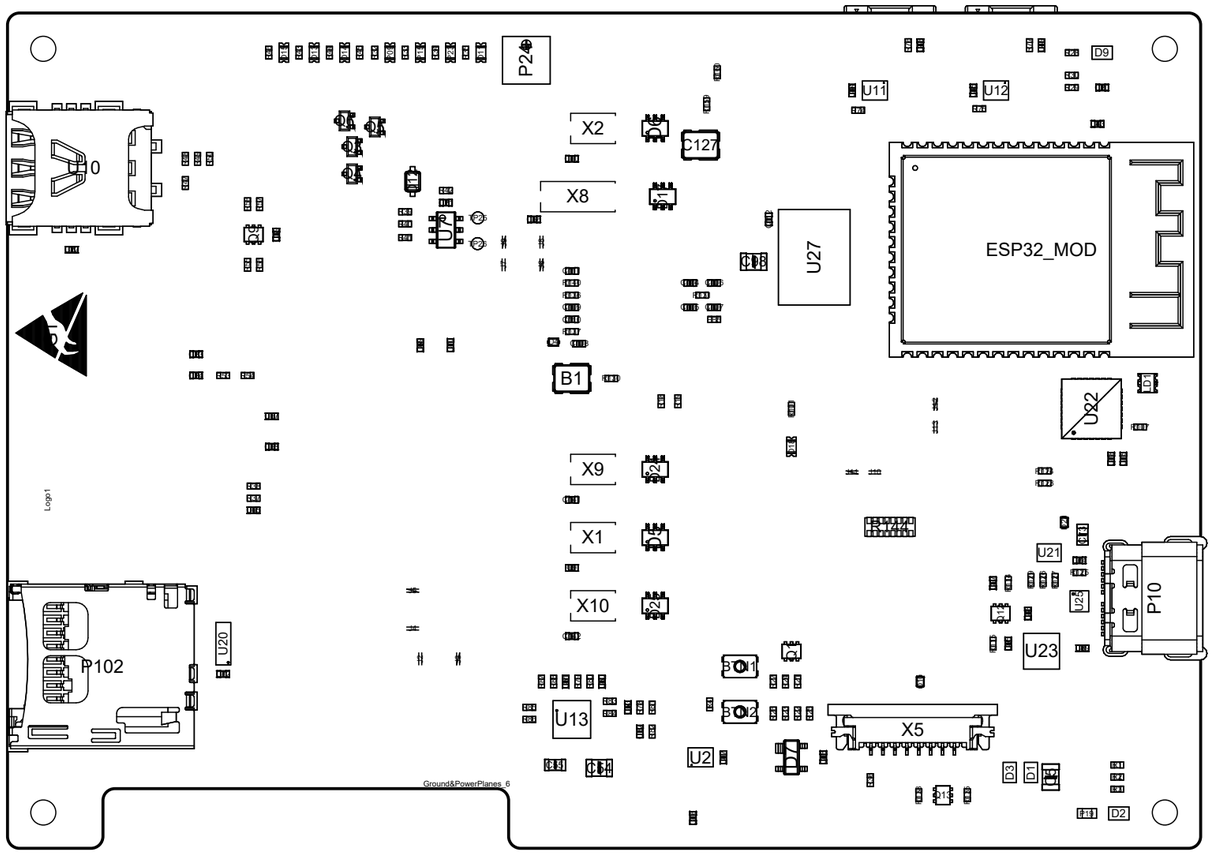
TITLE

Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 20 OF 23

View from Bottom side (Scale 2:1)



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TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	VSI	12/22/2020
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

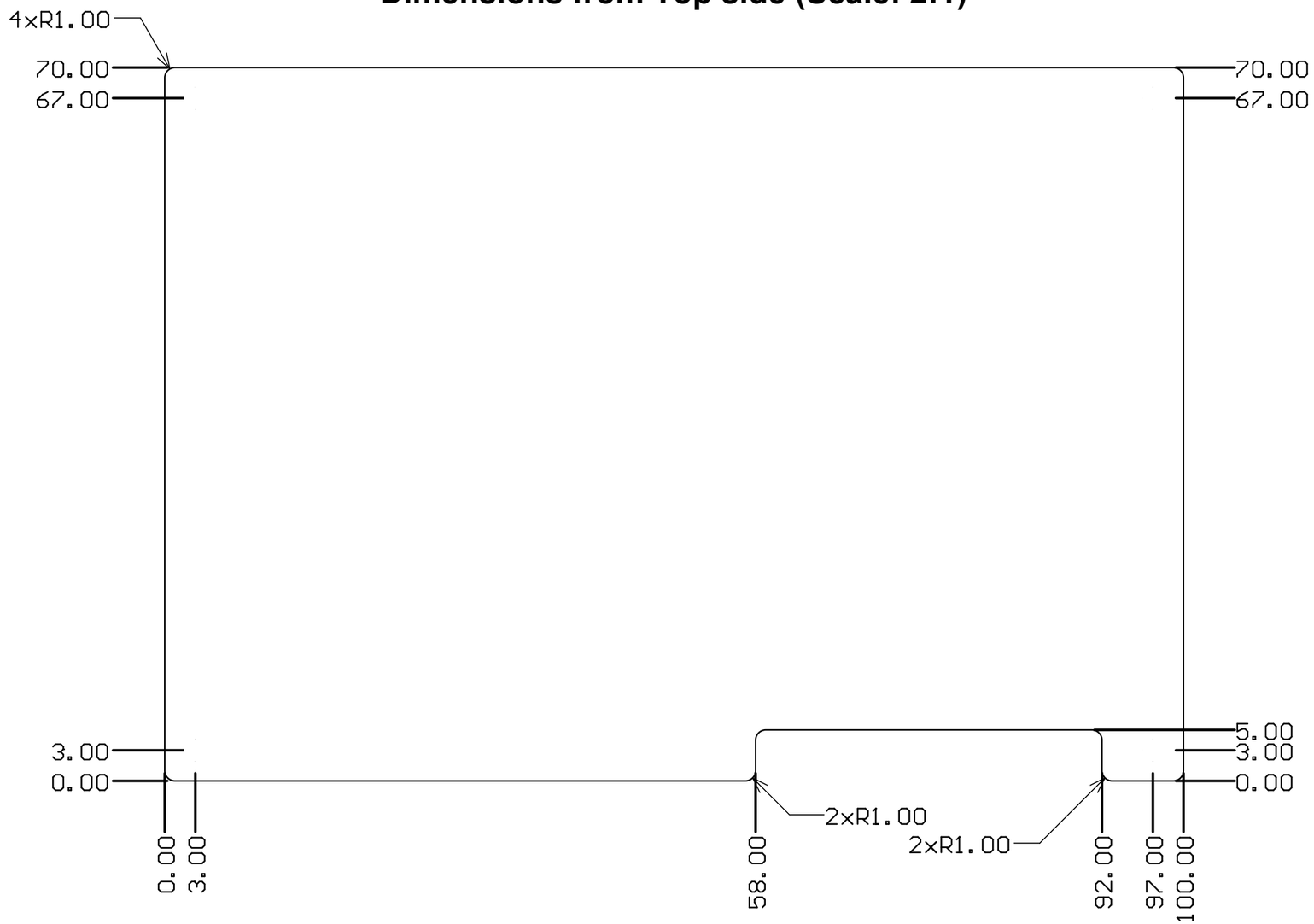
TITLE

Control Board

SIZE | DWG. NO. C201

SCALE: 2:1 | WEIGHT: | SHEET 21 OF 23

Dimensions from Top side (Scale: 2:1)



Dimensions

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL± ANGULAR: MACH± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN VSI		12/22/2020
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

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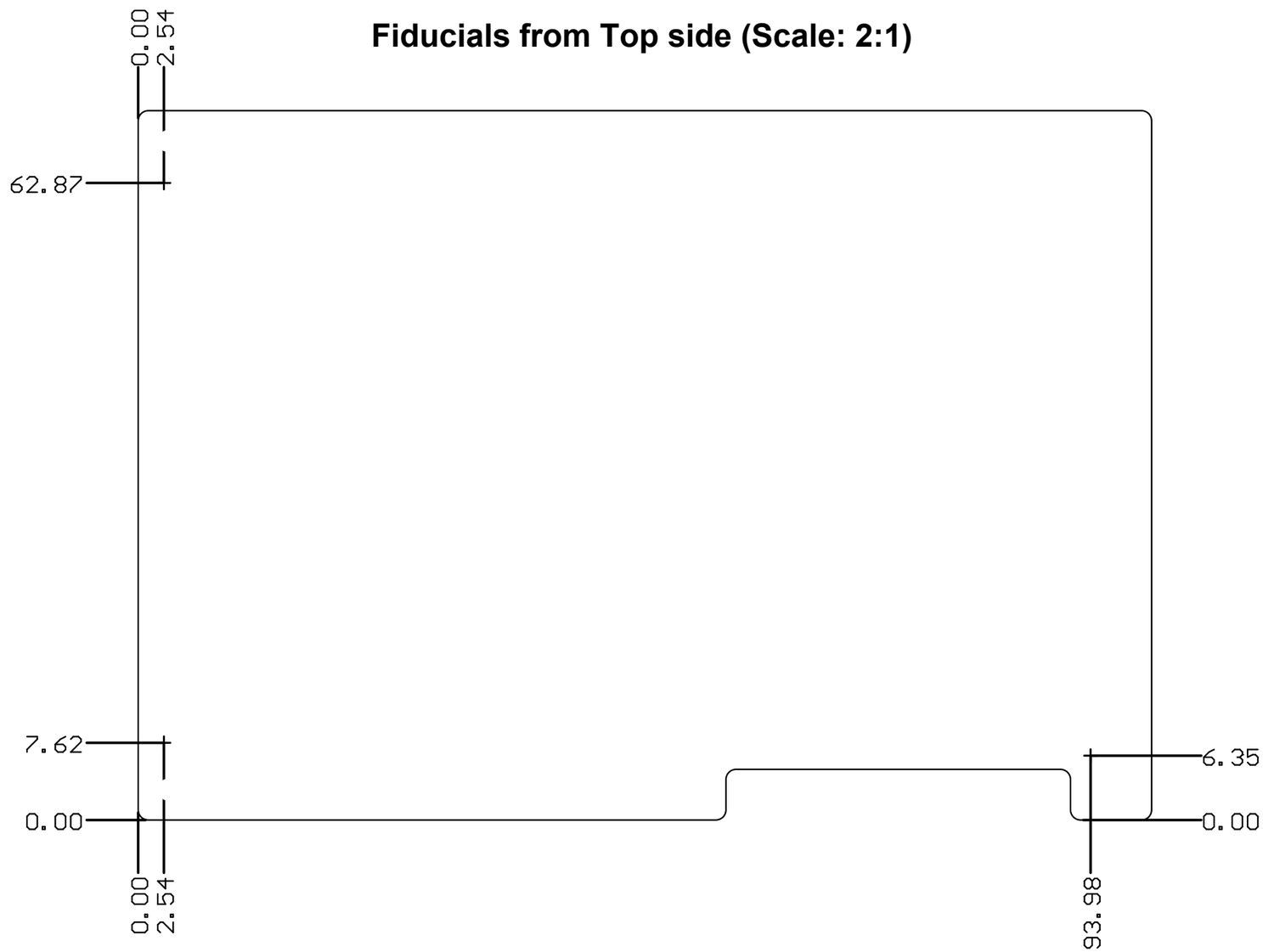
Acme CPU

TITLE

Control Board

SIZE	DWG. NO.	
	C201	
SCALE: 2:1	WEIGHT:	SHEET 22 OF 23

Fiducials from Top side (Scale: 2:1)



Fiducials

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CHECKED		
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MFG APPR.		
Q.A.		

COMMENTS:

Acme CPU

TITLE

Control Board

SIZE

DWG. NO. C201

SCALE: 2:1 WEIGHT: SHEET 23 OF 23