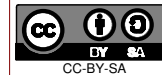


**DOMINO**  
WIFI 4 THINGS



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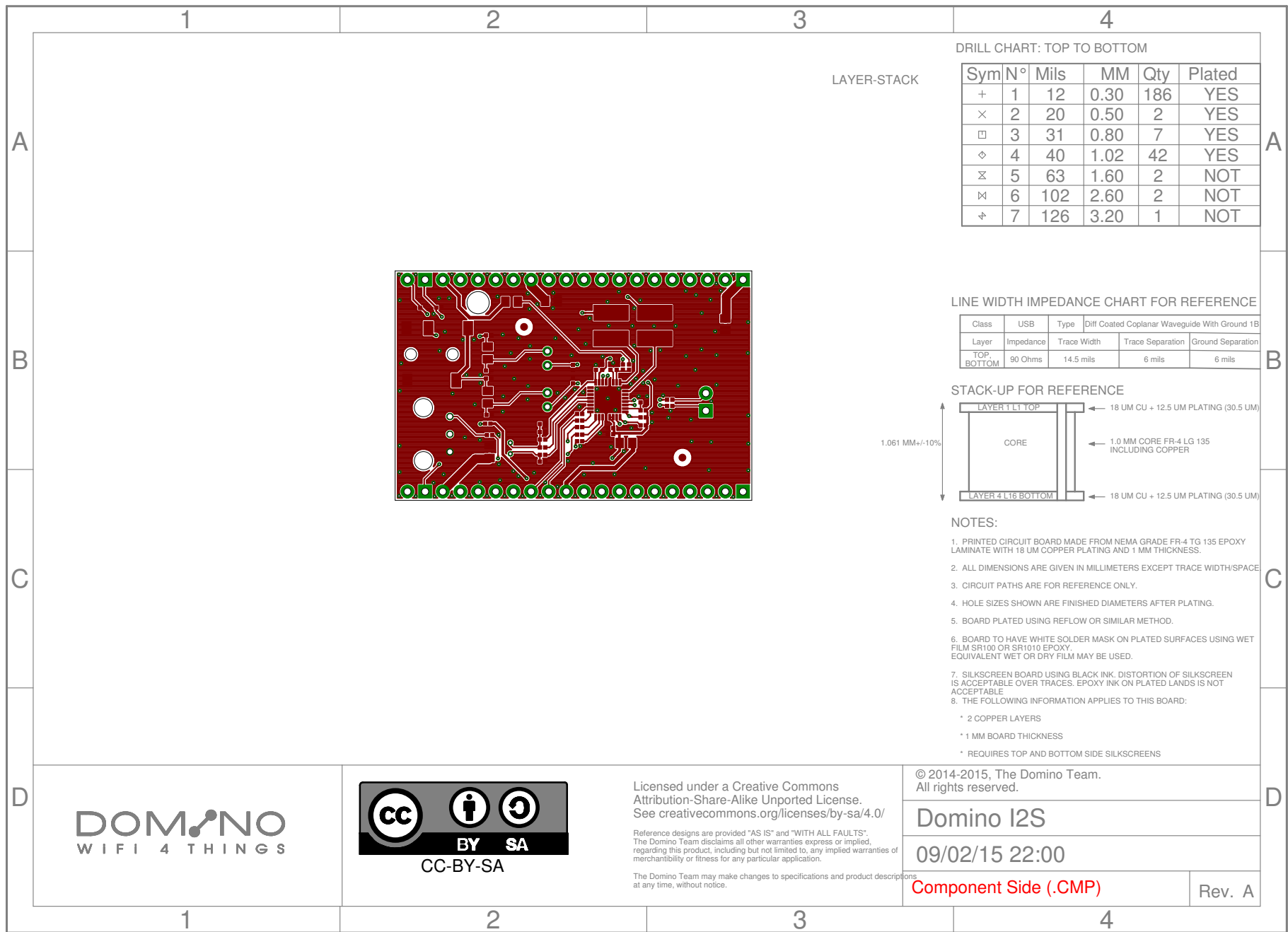
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Domino I2S

09/02/15 21:56

Sheet: 1/1

Rev.B



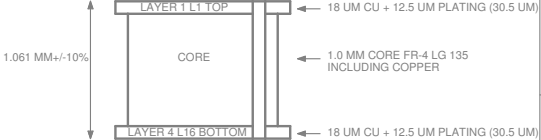
DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	186	YES
×	2	20	0.50	2	YES
□	3	31	0.80	7	YES
◇	4	40	1.02	42	YES
⊗	5	63	1.60	2	NOT
⊠	6	102	2.60	2	NOT
⊡	7	126	3.20	1	NOT

LINE WIDTH IMPEDANCE CHART FOR REFERENCE

Class	USB	Type	Diff Coated Coplanar Waveguide With Ground 1B		
Layer	Impedance	Trace Width	Trace Separation	Ground Separation	
TOP, BOTTOM	90 Ohms	14.5 mils	6 mils	6 mils	

STACK-UP FOR REFERENCE



NOTES:

1. PRINTED CIRCUIT BOARD MADE FROM NEMA GRADE FR-4 TG 135 EPOXY LAMINATE WITH 18 UM COPPER PLATING AND 1 MM THICKNESS.
2. ALL DIMENSIONS ARE GIVEN IN MILLIMETERS EXCEPT TRACE WIDTH/SPACE
3. CIRCUIT PATHS ARE FOR REFERENCE ONLY.
4. HOLE SIZES SHOWN ARE FINISHED DIAMETERS AFTER PLATING.
5. BOARD PLATED USING REFLOW OR SIMILAR METHOD.
6. BOARD TO HAVE WHITE SOLDER MASK ON PLATED SURFACES USING WET FILM SR100 OR SR1010 EPOXY. EQUIVALENT WET OR DRY FILM MAY BE USED.
7. SILKSCREEN BOARD USING BLACK INK. DISTORTION OF SILKSCREEN IS ACCEPTABLE OVER TRACES. EPOXY INK ON PLATED LANDS IS NOT ACCEPTABLE
8. THE FOLLOWING INFORMATION APPLIES TO THIS BOARD:
  - \* 2 COPPER LAYERS
  - \* 1 MM BOARD THICKNESS
  - \* REQUIRES TOP AND BOTTOM SIDE SILKSCREENS

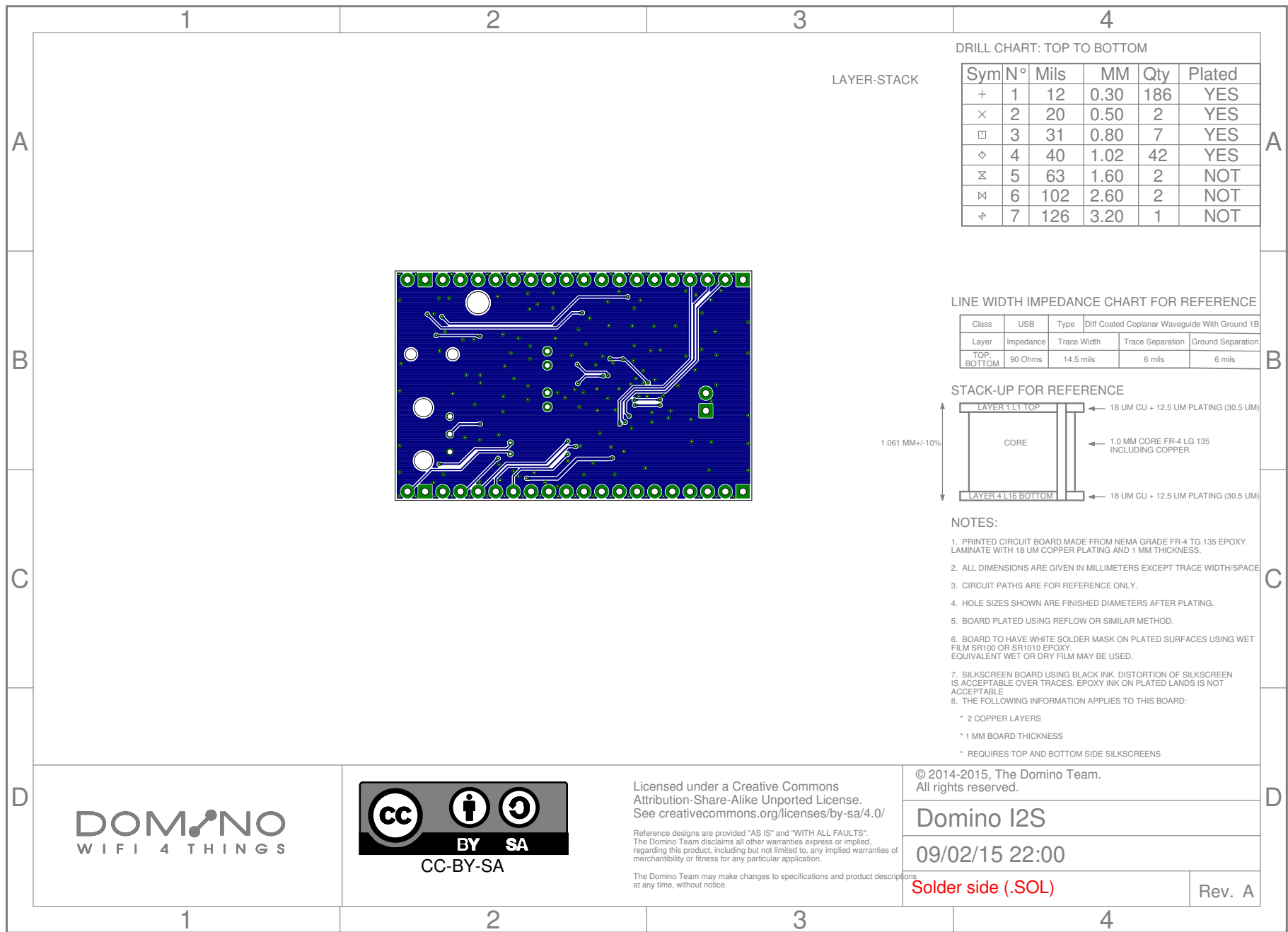
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Domino I2S

09/02/15 22:00

Component Side (.CMP)

Rev. A



LAYER-STACK

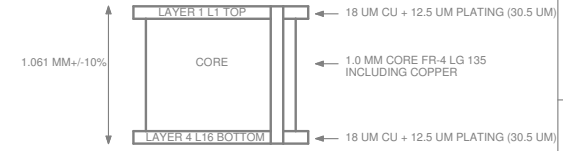
DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	186	YES
×	2	20	0.50	2	YES
□	3	31	0.80	7	YES
◇	4	40	1.02	42	YES
⊗	5	63	1.60	2	NOT
⊠	6	102	2.60	2	NOT
⊞	7	126	3.20	1	NOT

LINE WIDTH IMPEDANCE CHART FOR REFERENCE

Class	USB	Type	Diff Coated Coplanar Waveguide With Ground 1B		
Layer	Impedance	Trace Width	Trace Separation	Ground Separation	
TOP, BOTTOM	90 Ohms	14.5 mils	6 mils	6 mils	

STACK-UP FOR REFERENCE

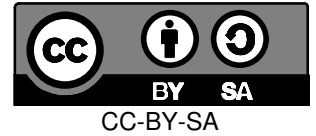


NOTES:

- 1. PRINTED CIRCUIT BOARD MADE FROM NEMA GRADE FR-4 TG 135 EPOXY LAMINATE WITH 18 UM COPPER PLATING AND 1 MM THICKNESS.
- 2. ALL DIMENSIONS ARE GIVEN IN MILLIMETERS EXCEPT TRACE WIDTH/SPACE
- 3. CIRCUIT PATHS ARE FOR REFERENCE ONLY.
- 4. HOLE SIZES SHOWN ARE FINISHED DIAMETERS AFTER PLATING.
- 5. BOARD PLATED USING REFLOW OR SIMILAR METHOD.
- 6. BOARD TO HAVE WHITE SOLDER MASK ON PLATED SURFACES USING WET FILM SR100 OR SR1010 EPOXY. EQUIVALENT WET OR DRY FILM MAY BE USED.
- 7. SILKSCREEN BOARD USING BLACK INK. DISTORTION OF SILKSCREEN IS ACCEPTABLE OVER TRACES. EPOXY INK ON PLATED LANDS IS NOT ACCEPTABLE
- 8. THE FOLLOWING INFORMATION APPLIES TO THIS BOARD:

- \* 2 COPPER LAYERS
- \* 1 MM BOARD THICKNESS
- \* REQUIRES TOP AND BOTTOM SIDE SILKSCREENS

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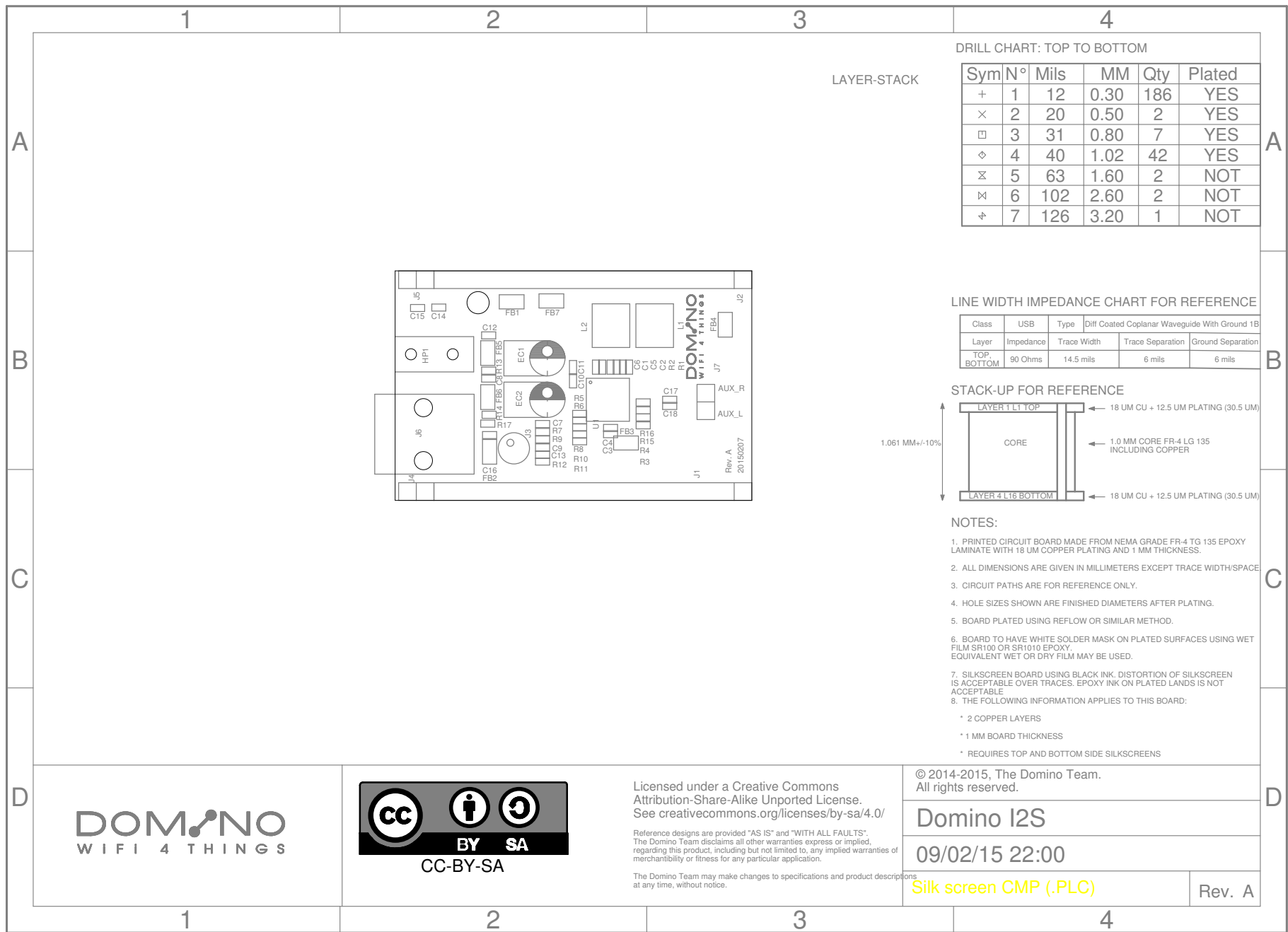
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Domino I2S

09/02/15 22:00

Solder side (.SOL)

Rev. A



### DRILL CHART: TOP TO BOTTOM

LINE WIDTH IMPEDANCE CHART FOR REFERENCE

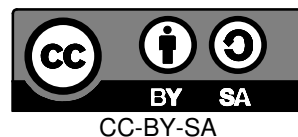
## STACK-UP FOR REFERENCE

NOTES:

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Silk screen SOL (.PLS)

Rev. A



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1234

A

LAYER-STACK

DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	186	YES
×	2	20	0.50	2	YES
□	3	31	0.80	7	YES
◇	4	40	1.02	42	YES
⊗	5	63	1.60	2	NOT
⊠	6	102	2.60	2	NOT
⊕	7	126	3.20	1	NOT

LINE WIDTH IMPEDANCE CHART FOR REFERENCE

Class	USB	Type	Diff Coated Coplanar Waveguide With Ground 1B
Layer	Impedance	Trace Width	Trace Separation
TOP, BOTTOM	90 Ohms	14.5 mils	6 mils

STACK-UP FOR REFERENCE

1.061 MM±/-10%

LAYER 1 LT TOP

CORE

LAYER 4 LT6 BOTTOM

← 18 UM CU + 12.5 UM PLATING (30.5 UM)

← 1.0 MM CORE FR-4 LG 135 INCLUDING COPPER

← 18 UM CU + 12.5 UM PLATING (30.5 UM)

NOTES:

1. PRINTED CIRCUIT BOARD MADE FROM NEMA GRADE FR-4 TG 135 EPOXY LAMINATE WITH 18 UM COPPER PLATING AND 1 MM THICKNESS.

2. ALL DIMENSIONS ARE GIVEN IN MILLIMETERS EXCEPT TRACE WIDTH/SPACE

3. CIRCUIT PATHS ARE FOR REFERENCE ONLY.

4. HOLE SIZES SHOWN ARE FINISHED DIAMETERS AFTER PLATING.

5. BOARD PLATED USING REFLOW OR SIMILAR METHOD.

6. BOARD TO HAVE WHITE SOLDER MASK ON PLATED SURFACES USING WET FILM SR100 OR SR1010 EPOXY. EQUIVALENT WET OR DRY FILM MAY BE USED.

7. SILKSCREEN BOARD USING BLACK INK. DISTORTION OF SILKSCREEN IS ACCEPTABLE OVER TRACES. EPOXY INK ON PLATED LANDS IS NOT ACCEPTABLE

8. THE FOLLOWING INFORMATION APPLIES TO THIS BOARD:

\* 2 COPPER LAYERS

\* 1 MM BOARD THICKNESS

\* REQUIRES TOP AND BOTTOM SIDE SILKSCREENS

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09/02/15 22:00

Solder stop mask CMP (.STC)

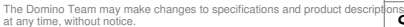
Rev. A

1234

B

C

D



1234

A

LAYER-STACK

DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	186	YES
×	2	20	0.50	2	YES
□	3	31	0.80	7	YES
◇	4	40	1.02	42	YES
⊗	5	63	1.60	2	NOT
⊠	6	102	2.60	2	NOT
⦿	7	126	3.20	1	NOT

LINE WIDTH IMPEDANCE CHART FOR REFERENCE

Class	USB	Type	Diff Coated Coplanar Waveguide With Ground 1B
Layer	Impedance	Trace Width	Trace Separation
TOP, BOTTOM	90 Ohms	14.5 mils	6 mils

STACK-UP FOR REFERENCE

1.061 MM±/-10%

LAYER 1 LT TOP

CORE

LAYER 4 LT6 BOTTOM

← 18 UM CU + 12.5 UM PLATING (30.5 UM)

← 1.0 MM CORE FR-4 LG 135 INCLUDING COPPER

← 18 UM CU + 12.5 UM PLATING (30.5 UM)

NOTES:

1. PRINTED CIRCUIT BOARD MADE FROM NEMA GRADE FR-4 TG 135 EPOXY LAMINATE WITH 18 UM COPPER PLATING AND 1 MM THICKNESS.

2. ALL DIMENSIONS ARE GIVEN IN MILLIMETERS EXCEPT TRACE WIDTH/SPACE

3. CIRCUIT PATHS ARE FOR REFERENCE ONLY.

4. HOLE SIZES SHOWN ARE FINISHED DIAMETERS AFTER PLATING.

5. BOARD PLATED USING REFLOW OR SIMILAR METHOD.

6. BOARD TO HAVE WHITE SOLDER MASK ON PLATED SURFACES USING WET FILM SR100 OR SR1010 EPOXY. EQUIVALENT WET OR DRY FILM MAY BE USED.

7. SILKSCREEN BOARD USING BLACK INK. DISTORTION OF SILKSCREEN IS ACCEPTABLE OVER TRACES. EPOXY INK ON PLATED LANDS IS NOT ACCEPTABLE

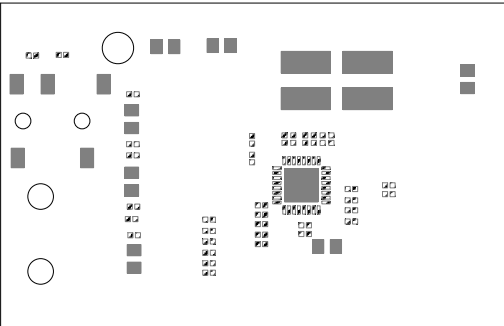
8. THE FOLLOWING INFORMATION APPLIES TO THIS BOARD:

\* 2 COPPER LAYERS

\* 1 MM BOARD THICKNESS


\* REQUIRES TOP AND BOTTOM SIDE SILKSCREENS


B



C

D





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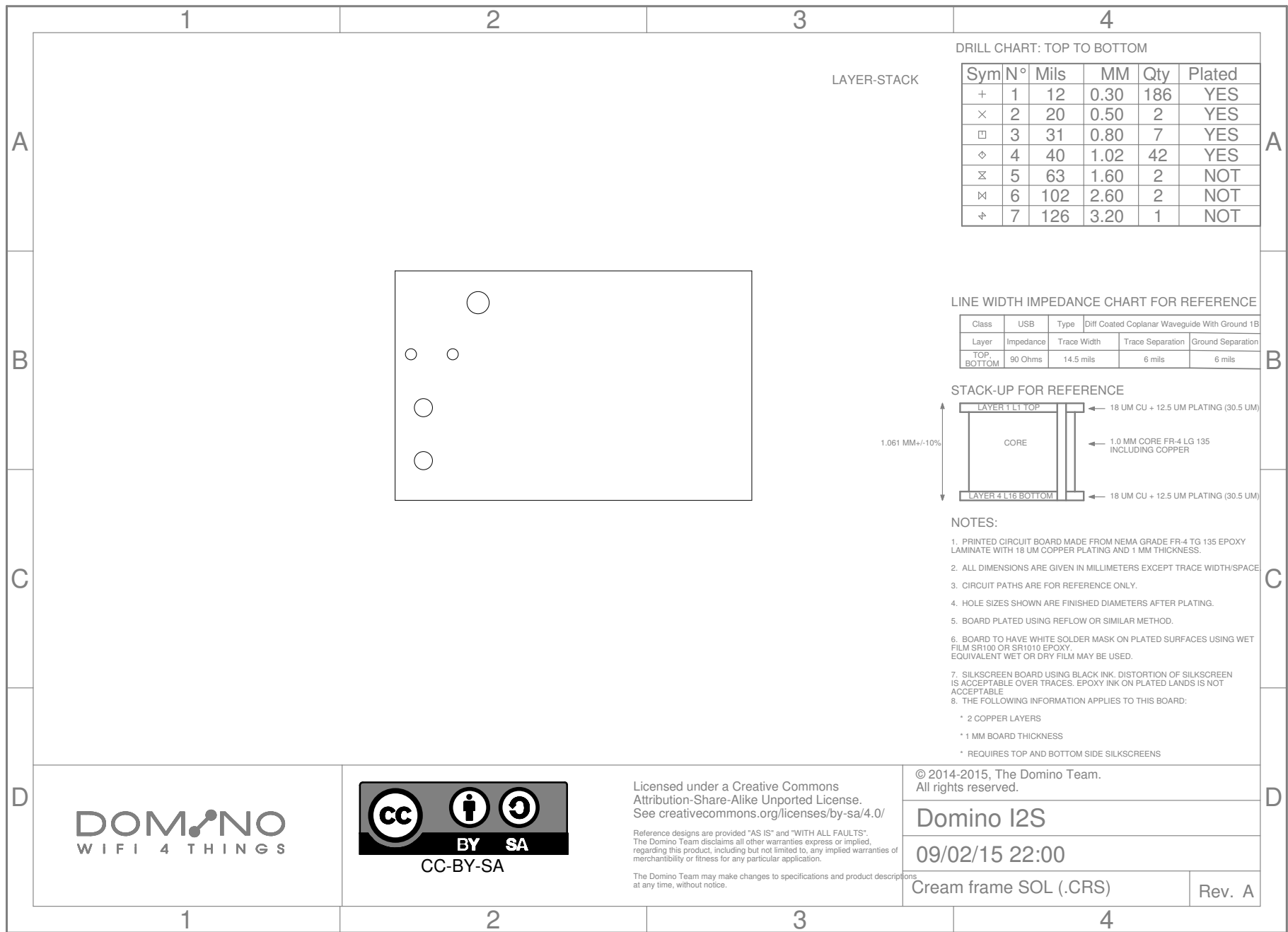
09/02/15 22:00

Cream frame CMP (.CRC)

Rev. A

1234





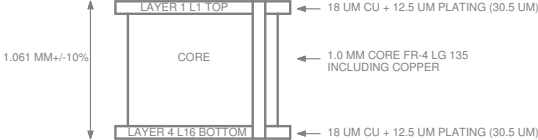
DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	186	YES
×	2	20	0.50	2	YES
□	3	31	0.80	7	YES
◇	4	40	1.02	42	YES
⊗	5	63	1.60	2	NOT
⊠	6	102	2.60	2	NOT
⊡	7	126	3.20	1	NOT

LINE WIDTH IMPEDANCE CHART FOR REFERENCE

Class	USB	Type	Diff Coated Coplanar Waveguide With Ground 1B
Layer	Impedance	Trace Width	Trace Separation
TOP, BOTTOM	90 Ohms	14.5 mils	6 mils

STACK-UP FOR REFERENCE



NOTES:

1. PRINTED CIRCUIT BOARD MADE FROM NEMA GRADE FR-4 TG 135 EPOXY LAMINATE WITH 18 UM COPPER PLATING AND 1 MM THICKNESS.
2. ALL DIMENSIONS ARE GIVEN IN MILLIMETERS EXCEPT TRACE WIDTH/SPACE.
3. CIRCUIT PATHS ARE FOR REFERENCE ONLY.
4. HOLE SIZES SHOWN ARE FINISHED DIAMETERS AFTER PLATING.
5. BOARD PLATED USING REFLOW OR SIMILAR METHOD.
6. BOARD TO HAVE WHITE SOLDER MASK ON PLATED SURFACES USING WET FILM SR100 OR SR1010 EPOXY. EQUIVALENT WET OR DRY FILM MAY BE USED.
7. SILKSCREEN BOARD USING BLACK INK. DISTORTION OF SILKSCREEN IS ACCEPTABLE OVER TRACES. EPOXY INK ON PLATED LANDS IS NOT ACCEPTABLE.
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  - \* 1 MM BOARD THICKNESS
  - \* REQUIRES TOP AND BOTTOM SIDE SILKSCREENS

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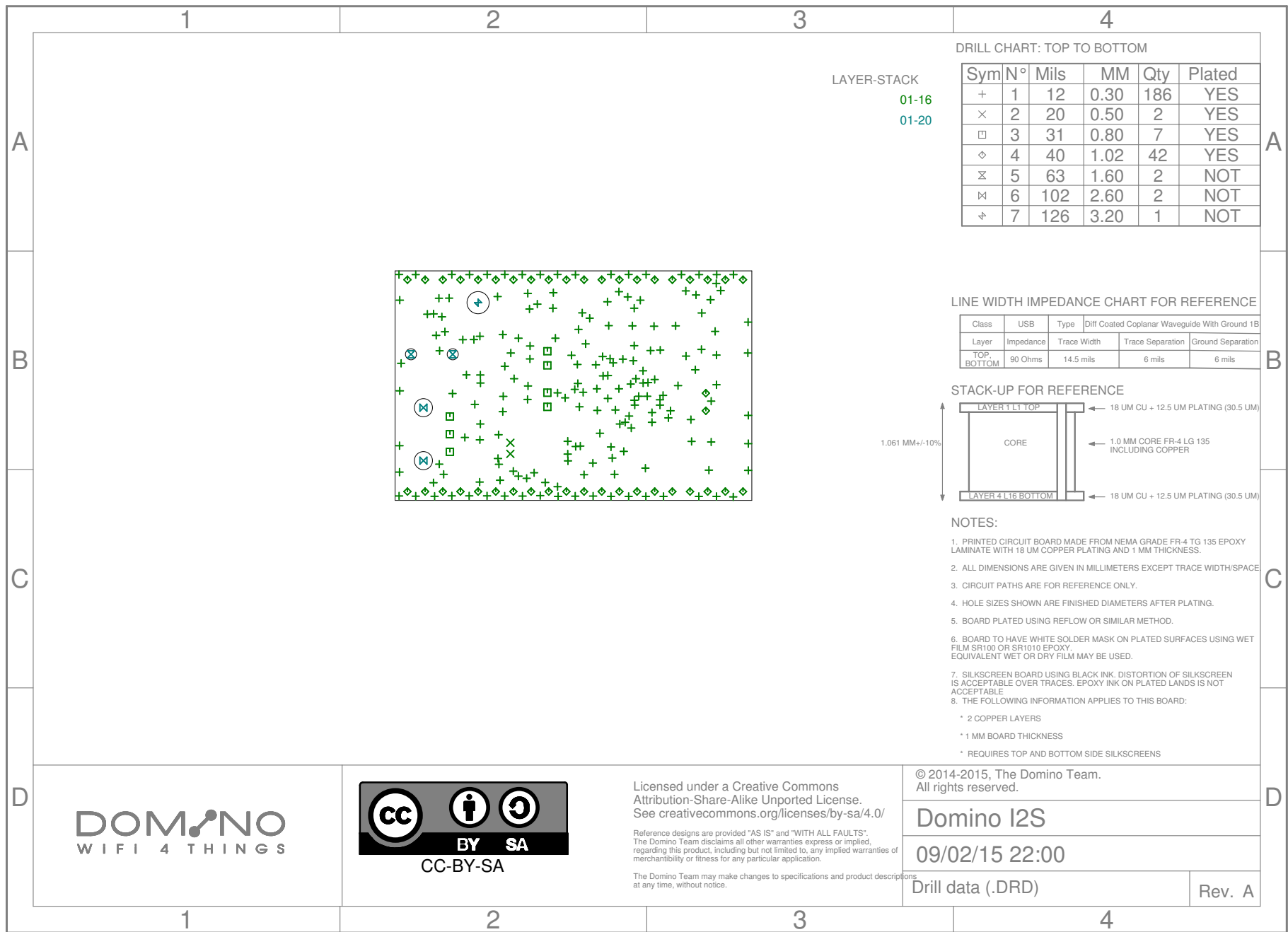
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Domino I2S

09/02/15 22:00

Cream frame SOL (.CRS)

Rev. A



1234

A

LAYER-STACK

DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	186	YES
×	2	20	0.50	2	YES
□	3	31	0.80	7	YES
◇	4	40	1.02	42	YES
⊗	5	63	1.60	2	NOT
⊠	6	102	2.60	2	NOT
⊕	7	126	3.20	1	NOT

B

LINE WIDTH IMPEDANCE CHART FOR REFERENCE

Class	USB	Type	Diff Coated Coplanar Waveguide With Ground 1B	
Layer	Impedance	Trace Width	Trace Separation	Ground Separation
TOP, BOTTOM	90 Ohms	14.5 mils	6 mils	6 mils

C

STACK-UP FOR REFERENCE

1.061 MM +/- 10%

LAYER 1 L1 TOP

← 18 UM CU + 12.5 UM PLATING (30.5 UM)

CORE

← 1.0 MM CORE FR-4 LG 135 INCLUDING COPPER

LAYER 4 L16 BOTTOM

← 18 UM CU + 12.5 UM PLATING (30.5 UM)

NOTES:

1. PRINTED CIRCUIT BOARD MADE FROM NEMA GRADE FR-4 TG 135 EPOXY LAMINATE WITH 18 UM COPPER PLATING AND 1 MM THICKNESS.

2. ALL DIMENSIONS ARE GIVEN IN MILLIMETERS EXCEPT TRACE WIDTH/SPACE

3. CIRCUIT PATHS ARE FOR REFERENCE ONLY.

4. HOLE SIZES SHOWN ARE FINISHED DIAMETERS AFTER PLATING.

5. BOARD PLATED USING REFLOW OR SIMILAR METHOD.

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8. THE FOLLOWING INFORMATION APPLIES TO THIS BOARD:

\* 2 COPPER LAYERS

\* 1 MM BOARD THICKNESS

\* REQUIRES TOP AND BOTTOM SIDE SILKSCREENS

D

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WIFI 4 THINGS

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Domino I2S

09/02/15 22:00

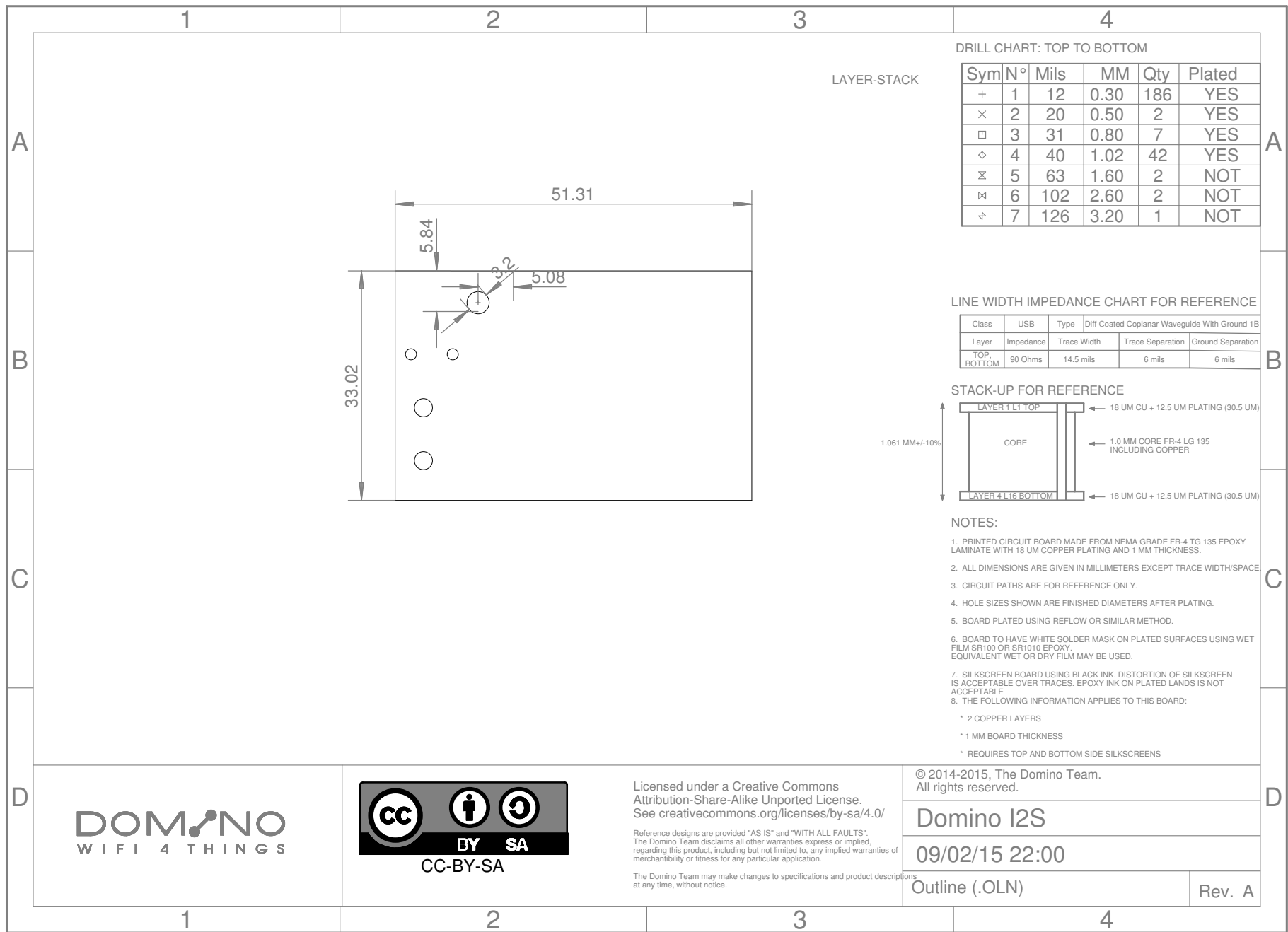
Component Assembly CMP (.ASC)

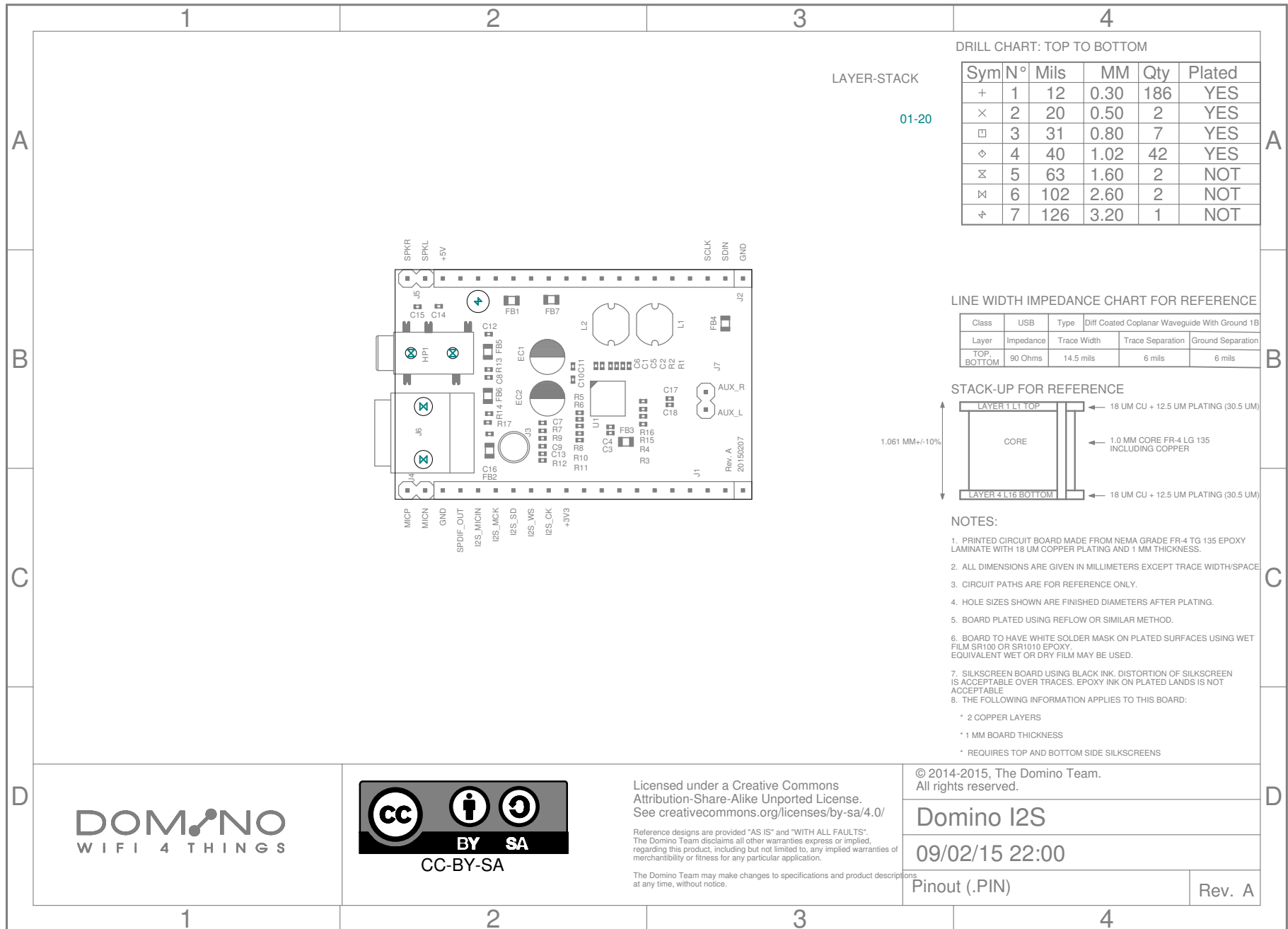
Rev. A

1234

D







# Domino I2S Rev. A

Item	Qty	Value	Manufacturer	Device	Package	Reference	Description	Remarks
1	64u7		ANY	C0402_4u7_X5R_10%_CER_6V3	C0402	C1, C2, C3, C4, C5, C6	CAP CER 4.7UF 6.3V 10% X5R 0402	
2	21n		ANY	C0402_1n_X7R_10%_CER_50V	C0402	C10, C11	CAP CER 1NF 50V 10% X7R 0402	
3	210n		ANY	C0402_10n_X7R_10%_CER_50V	C0402	C14, C15	CAP CER 10000PF 50V 10% X7R 0402	
4	1220p		ANY	C0402_220p_X7R_10%_CER_50V	C0402	C7	CAP CER 0.22UF 50V 10% X7R 0402	
5	233p		ANY	C0402_33p_NP0_5%_CER_50V	C0402	C8, C12	CAP CER 33PF 50V 5% NP0 0402	
6	51u		ANY	C0402_1u_X7R_10%_CER_25V	C0402	C9, C13, C16, C17, C18	CAP CER 1UF 25V 10% X7R 0402	
7	2220u		ANY	C2-5x7_220u_ALU_20%_RAD_6V3	E2-5	EC1, EC2	CAP ALUM 220UF 6.3V 20% RADIAL	
8	7HH-1T1005-121		CERATECH	HH-1T2012-601	FB0805	FB1, FB2, FB3, FB4, FB5, FB6, FB7	FERRITE CHIP 600 OHM 2500MA 0805	
9	1ST-3538-050		SZJUSTWELL ELECTRONICS	ST-3538-050	ST-3538-050	HP1	CONN AUDIO JACK 3.5MM STEREO SMD	
10	2MH18-1		ANY	MH18-1-0.1	MH18-1-0.1	J1, J2	CONN HEADER VERT .100 1ROW 18POS 8.08 HEAD 3.05 TAIL 15AU	
11	0MIC-45-22		ANY	MIC-45-22	MIC-45-22	J3(DNP)	MIC COND ANALOG OMNI	
12	1MH2-1		ANY	MH2-1-0.1	MH2-1-0.1	J4(DNP), J5(DNP), J7	CONN HEADER VERT .100 1ROW 2POS 8.08 HEAD 3.05 TAIL 15AU	
13	1DLT1120A		AIXIN LTD	DLT1120A	DLT1120A	J6	TRANSMITTER FIBER OPTIC 16MBPS	
14	2CD54NP-220MC		SUMIDA INC	CD54NP-220MC	CD54	L1, L2	FIXED IND 220UH 1.11A 190 MOHM	