

LAYER-STACK

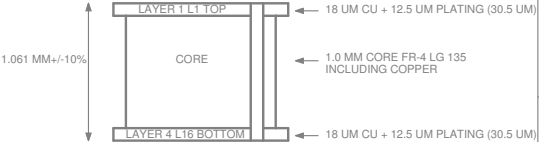
DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	184	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

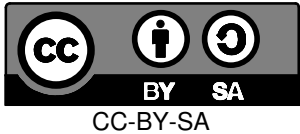
STACK-UP FOR REFERENCE



NOTES:

1. PRINTED CIRCUIT BOARD MADE FROM NEMA GRADE FR-4 TG 135 EPOXY LAMINATE WITH 18 UM COPPER PLATING AND 1 MM THICKNESS.
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3. CIRCUIT PATHS ARE FOR REFERENCE ONLY.
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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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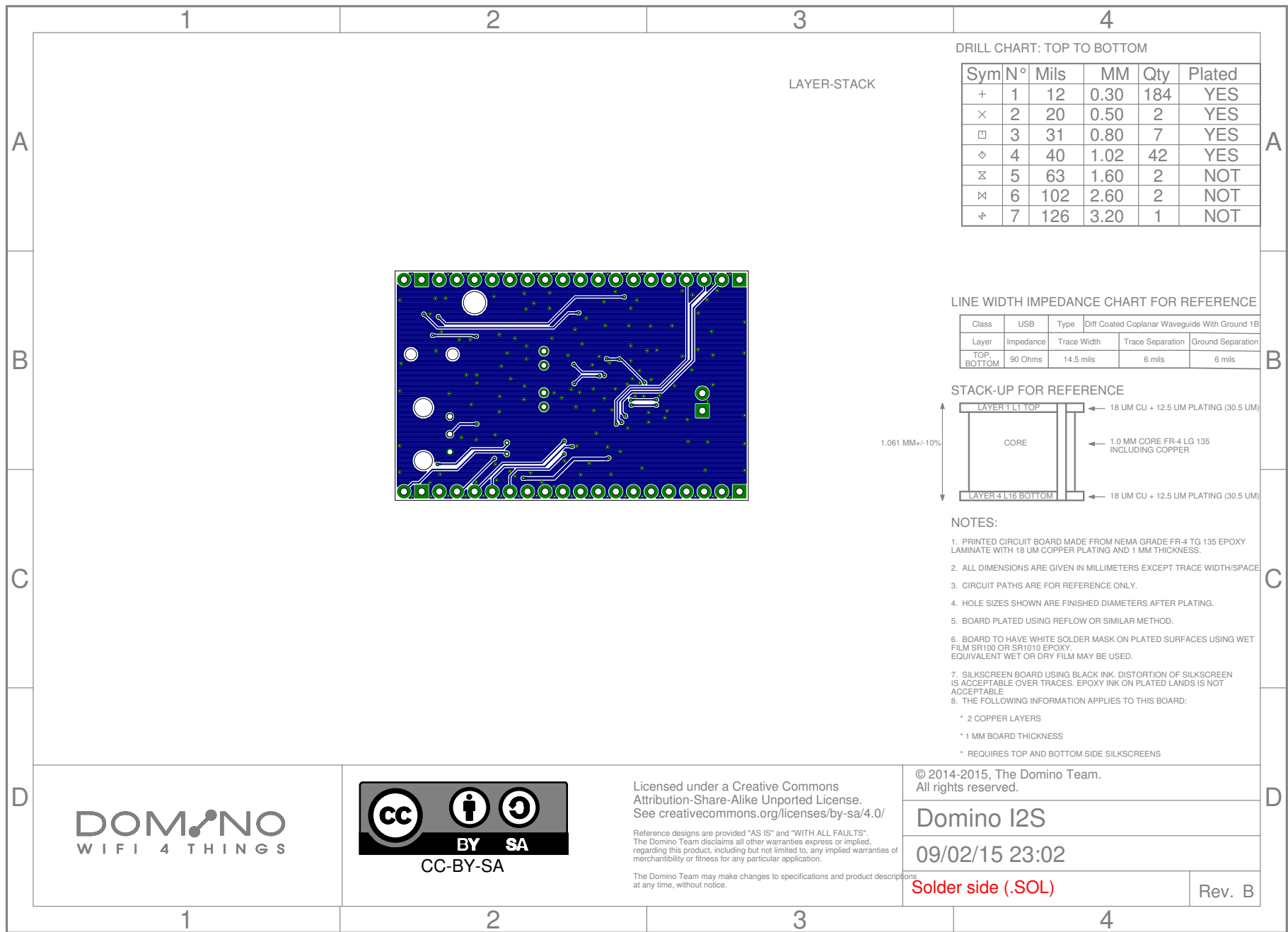
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Domino I2S

09/02/15 23:02

Component Side (.CMP)

Rev. B



LAYER-STACK

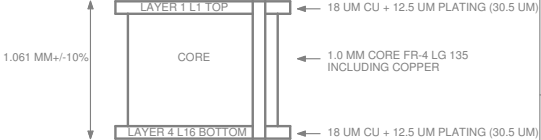
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Class	USB	Type	Diff Coated Coplanar Waveguide With Ground 1B		
Layer	Impedance	Trace Width	Trace Separation	Ground Separation	
TOP, BOTTOM	90 Ohms	14.5 mils	6 mils	6 mils	

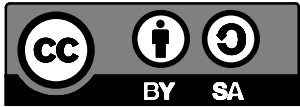
STACK-UP FOR REFERENCE



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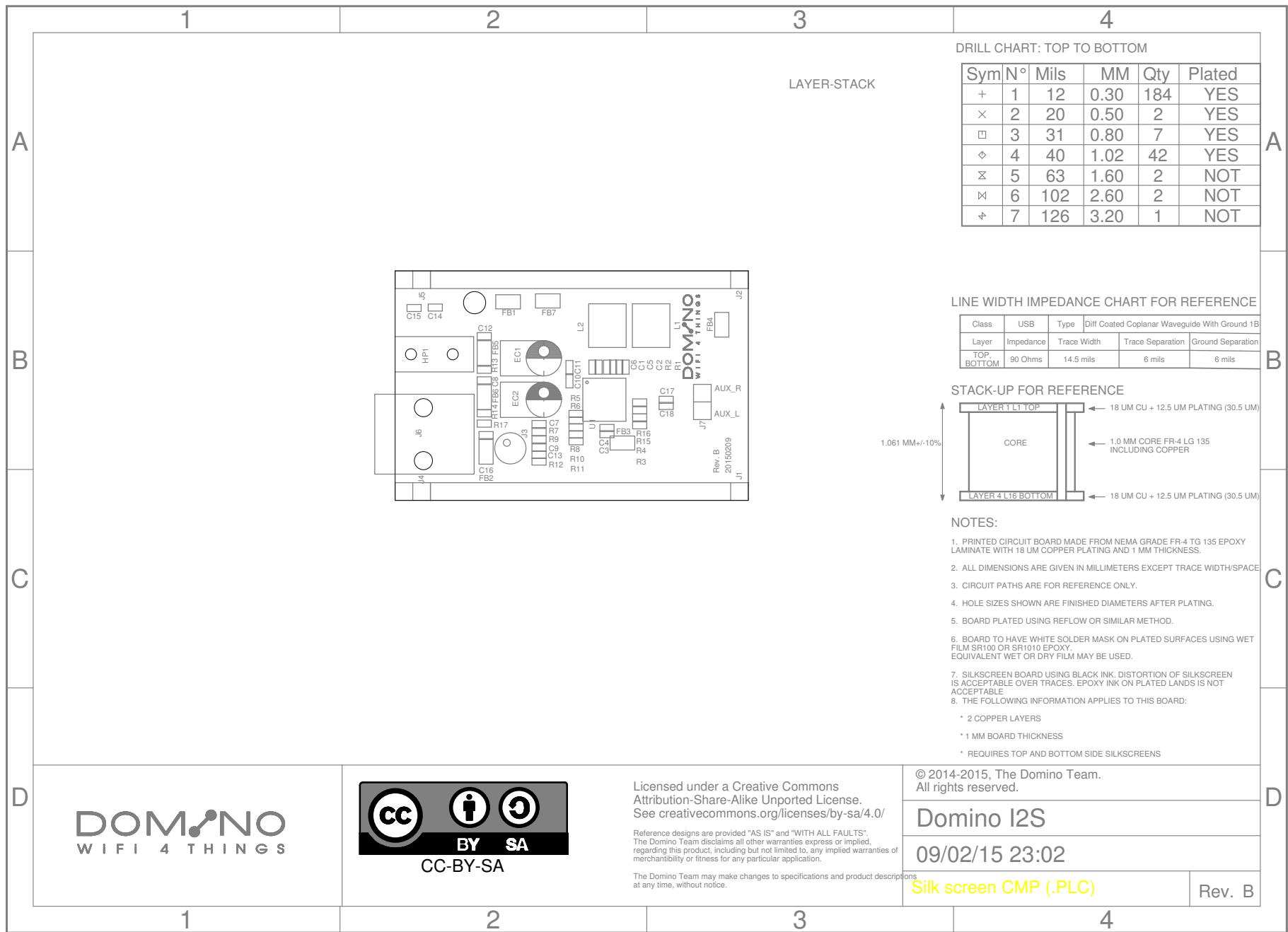
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Domino I2S

09/02/15 23:02

Solder side (.SOL)

Rev. B



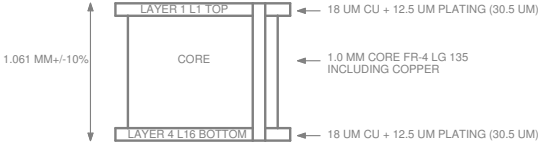
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⊠	6	102	2.60	2	NOT
⊡	7	126	3.20	1	NOT

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:

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Domino I2S

09/02/15 23:02

Silk screen CMP (.PLC)

Rev. B

1234

A

LAYER-STACK

DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	184	YES
×	2	20	0.50	2	YES
□	3	31	0.80	7	YES
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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:

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Silk screen SOL (.PLS)

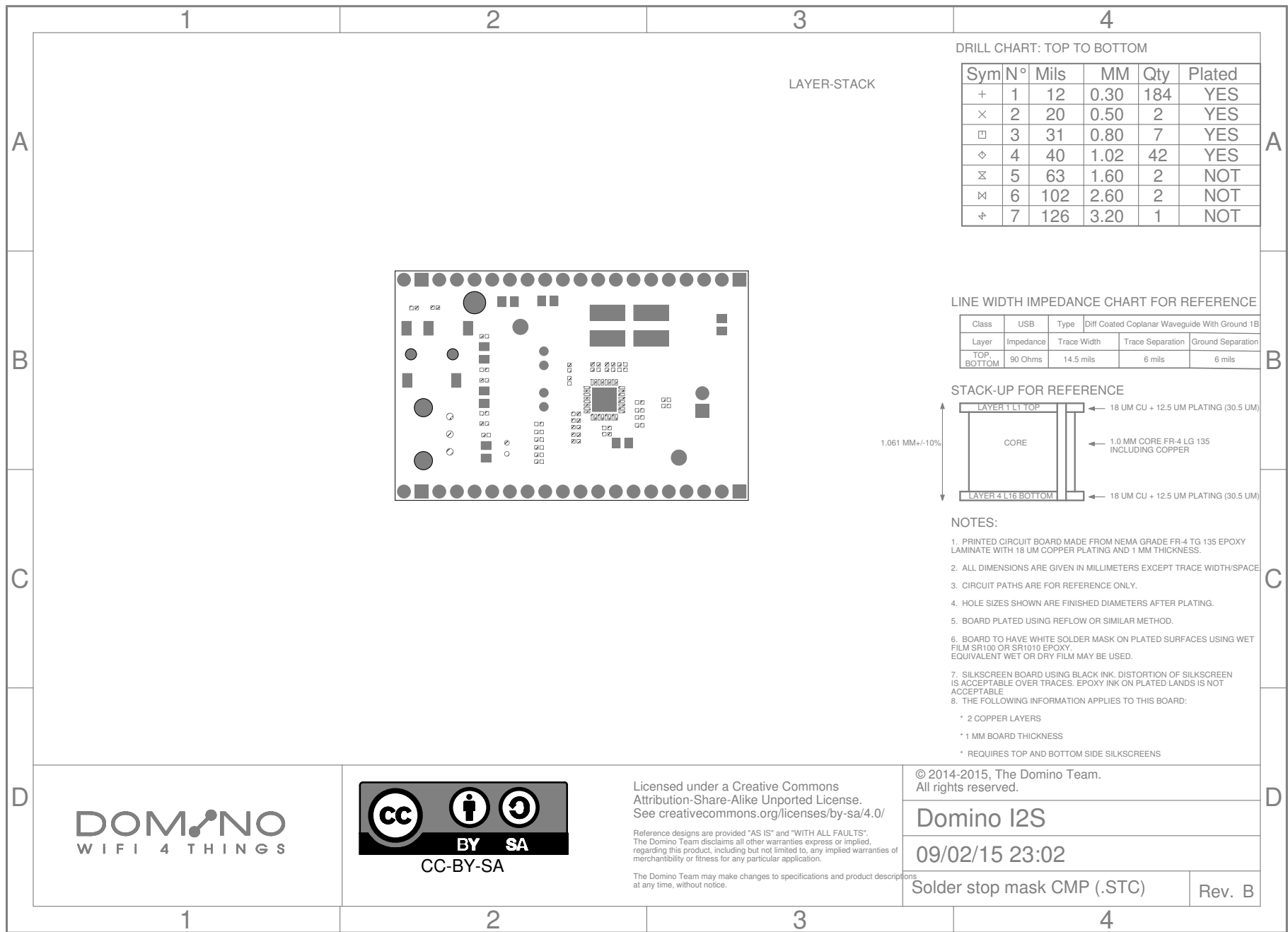
Rev. B

1234

B

C

D



LAYER-STACK

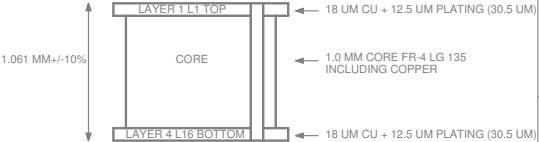
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×	2	20	0.50	2	YES
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LINE WIDTH IMPEDANCE CHART FOR REFERENCE

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	

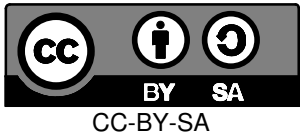
STACK-UP FOR REFERENCE



NOTES:

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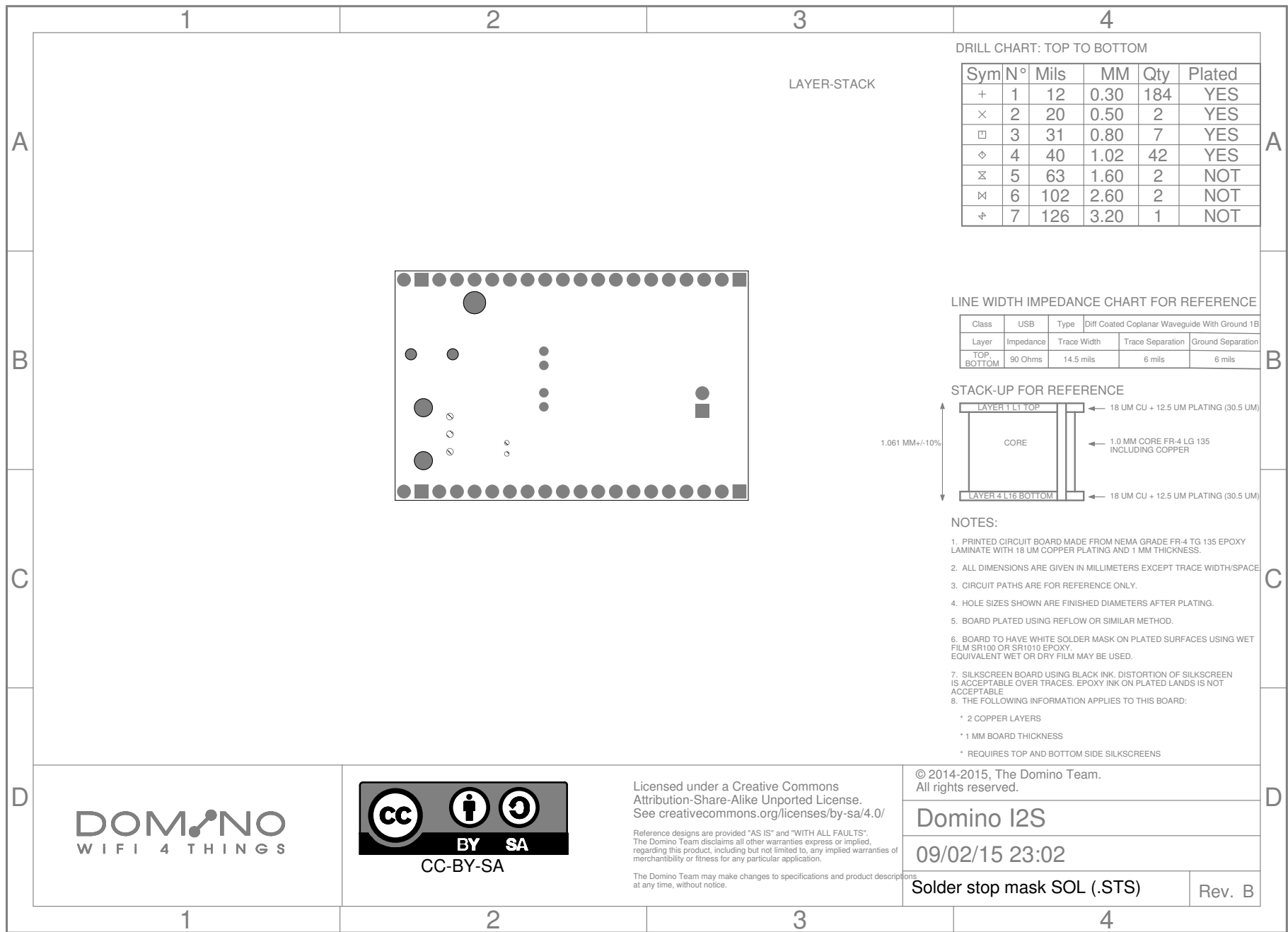
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Solder stop mask CMP (.STC)

Rev. B



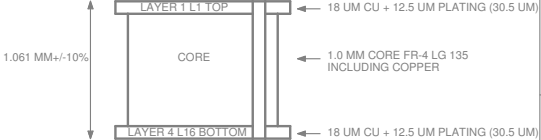
DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
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×	2	20	0.50	2	YES
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⊞	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	

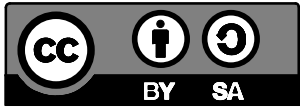
STACK-UP FOR REFERENCE



NOTES:

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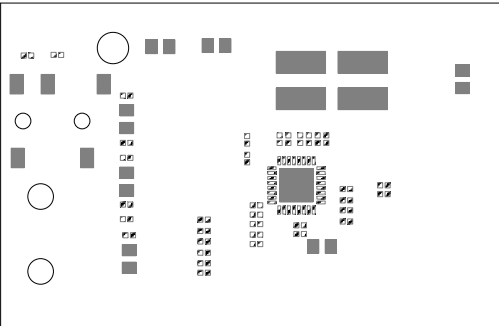
Solder stop mask SOL (.STS)

Rev. B

1234

A

LAYER-STACK



DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	184	YES
×	2	20	0.50	2	YES
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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 L1 TOP

CORE

LAYER 4 L16 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:

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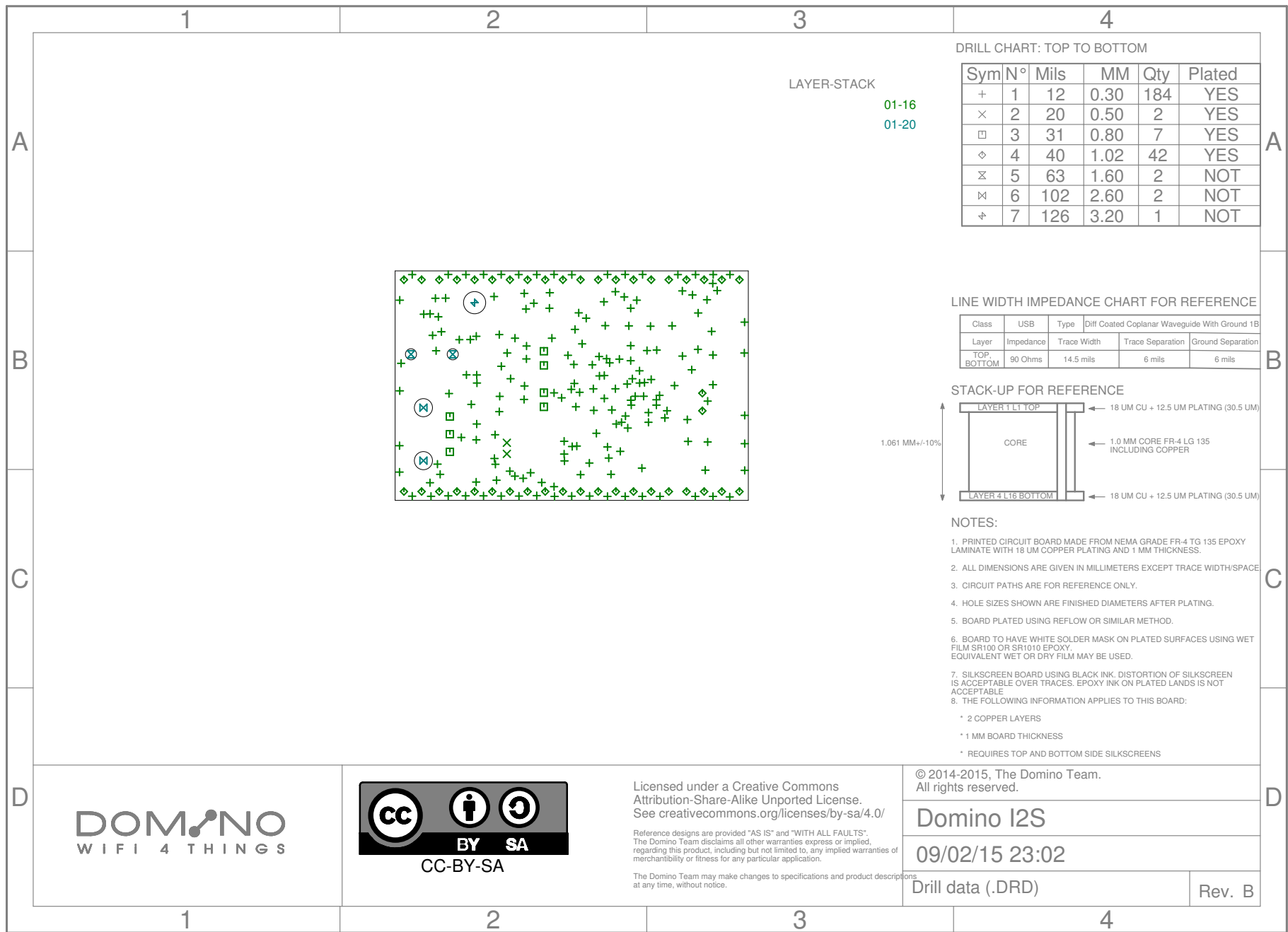
Domino I2S

09/02/15 23:02

Cream frame CMP (.CRC)

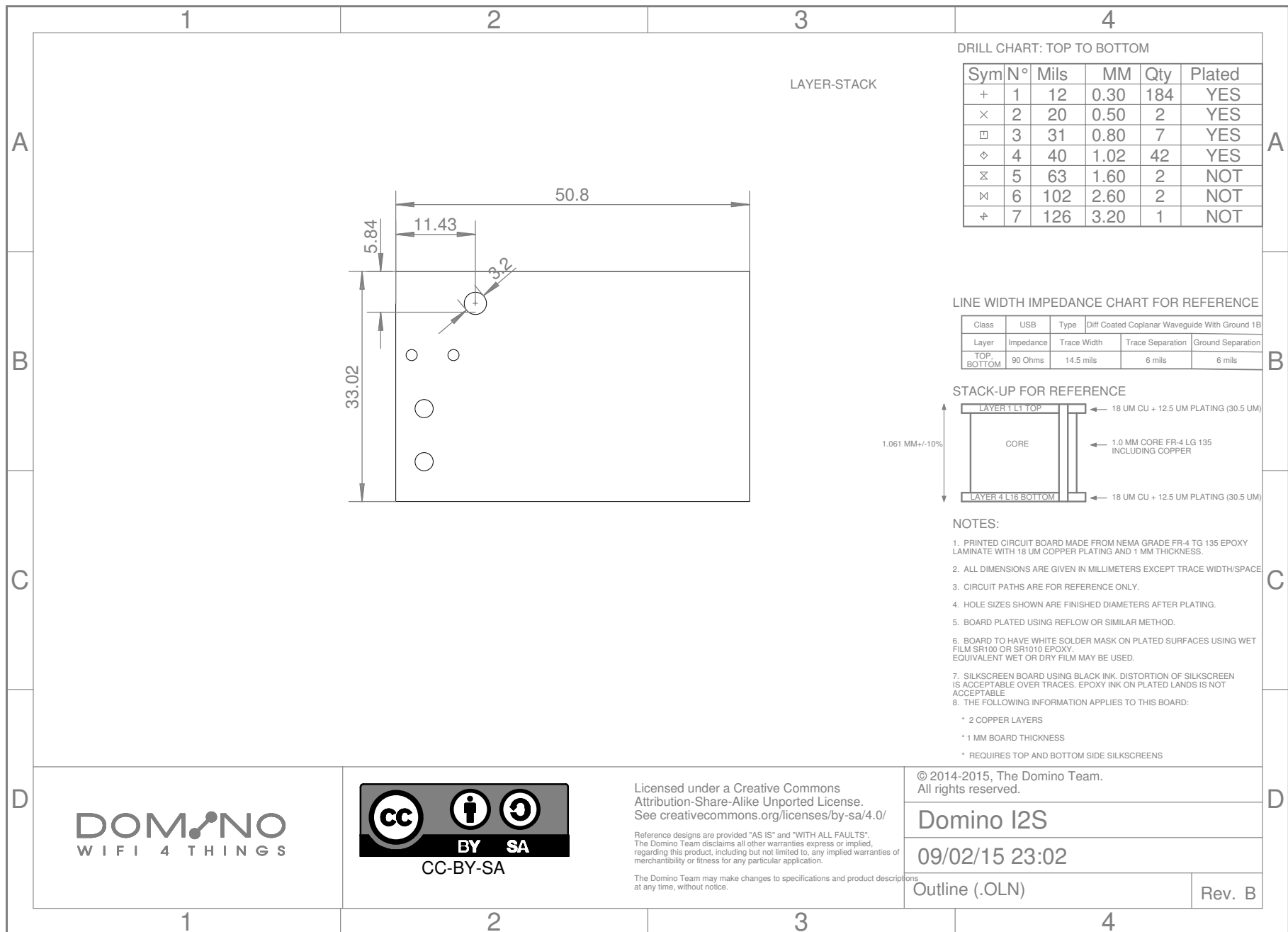
Rev. B

1234











Sym	N°	Mils	MM	Qty	Plated
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×	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

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

10%

LAYER 1 L1 TOP

18 UM CU + 12.5 UM PLATING (30.5 UM)

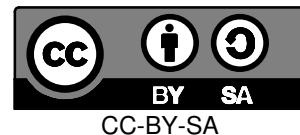
CORE

1.0 MM CORE FR-4 LG 135 INCLUDING COPPER

LAYER 4 L16 BOTTOM

18 UM CU + 12.5 UM PLATING (30.5 UM)

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Pinout (.PIN)

Rev. B

Domino I2S Rev. B

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	
15	30R	ANY		R0402_0R_5%_62.5mW	R0402	R1(DNP), R2, R12, R17	RES 0.0 OHM 1/16W JUMP 0402 SMD	
16	24k7	ANY		R0402_4k7_5%_62.5mW	R0402	R13, R14	RES 4.7K OHM 1/16W 5% 0402 SMD	
17	110k	ANY		R0402_10k_5%_62.5mW	R0402	R3(DNP), R4(DNP), R15, R16(DNP)	RES 10K OHM 1/16W 5% 0402 SMD	
18	522R	ANY		R0402_22R_5%_62.5mW	R0402	R5, R6, R8, R10, R11	RES 22 OHM 1/16W 5% 0402 SMD	
19	147k	ANY		R0402_47k_5%_62.5mW	R0402	R7	RES 47K OHM 1/16W 5% 0402 SMD	
20	1680R	ANY		R0402_680R_5%_62.5mW	R0402	R9	RES 680 OHM 1/16W 5% 0402 SMD	
21	1WM8978CGEFL	CIRRUS LOGIC		WM8978CGEFL	QFN-32_EP_5X5	U1	IC CODEC STER SPEAKER DVR 32QF	