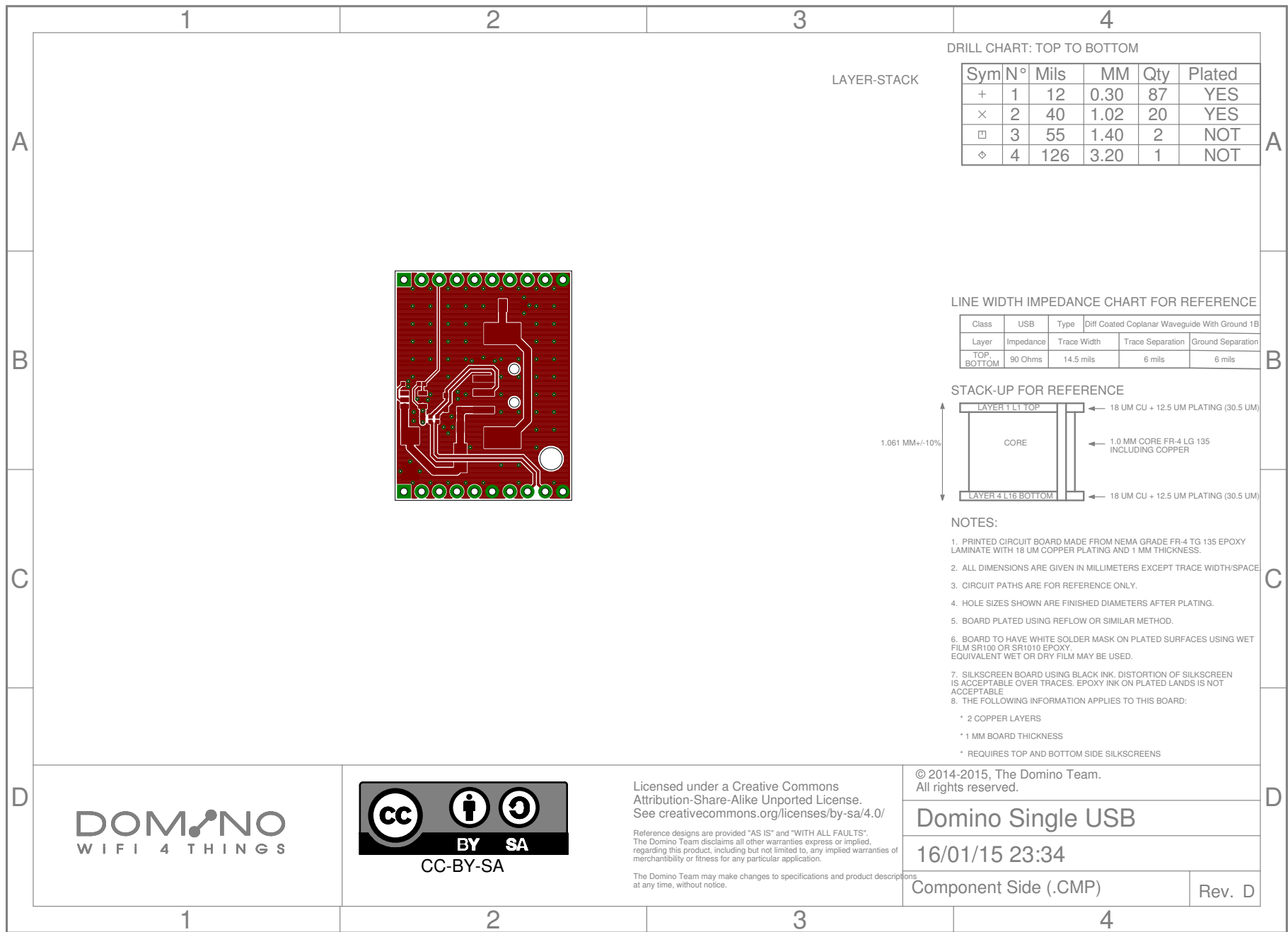


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Sheet: 1/1	Rev.D
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LAYER-STACK

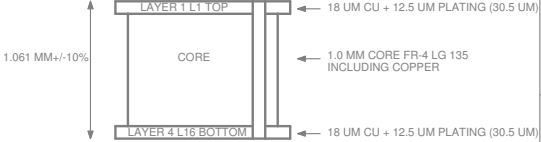
DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	87	YES
×	2	40	1.02	20	YES
□	3	55	1.40	2	NOT
◇	4	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	

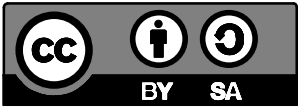
STACK-UP FOR REFERENCE



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
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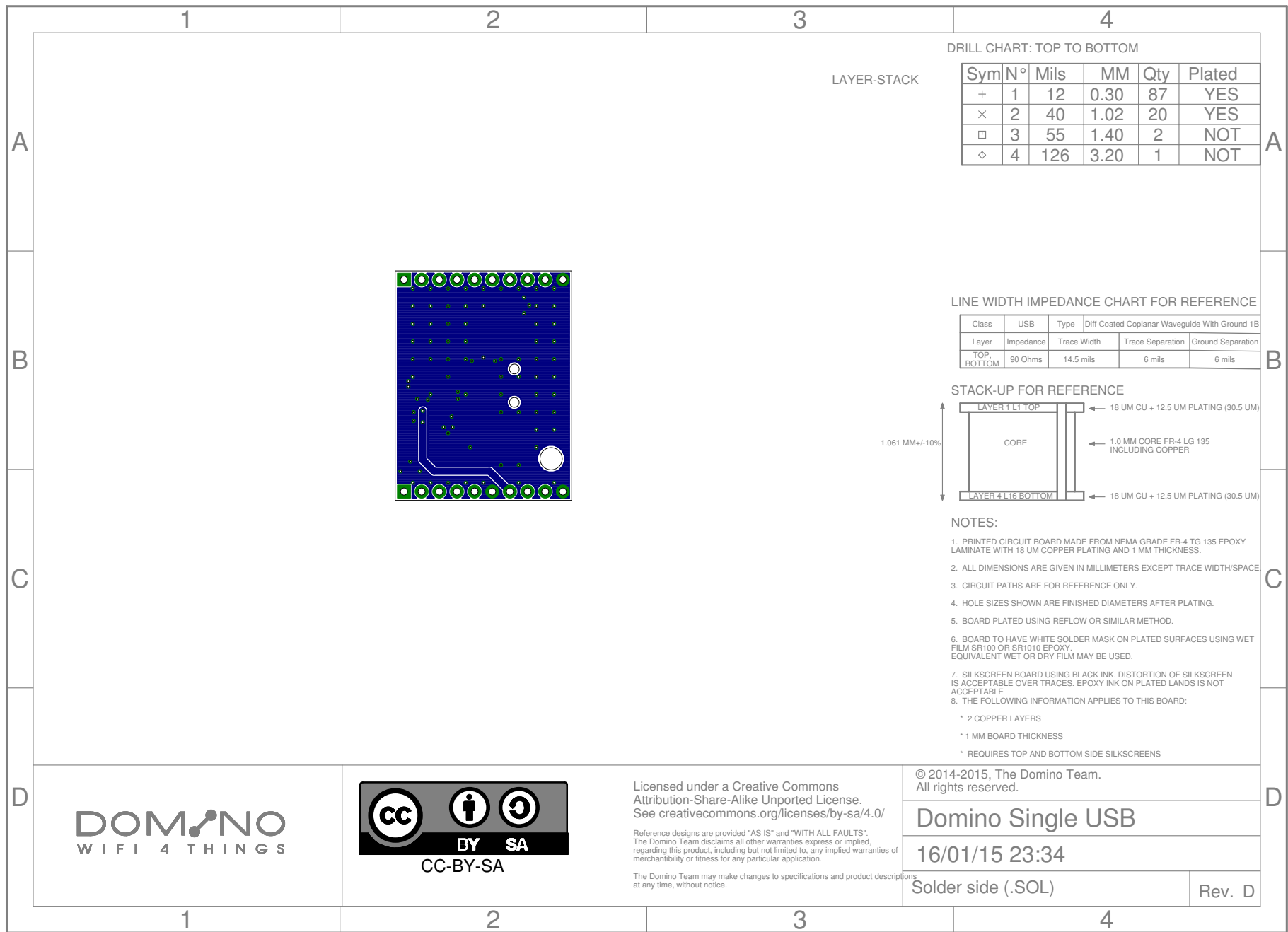
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Domino Single USB

16/01/15 23:34

Component Side (.CMP)

Rev. D



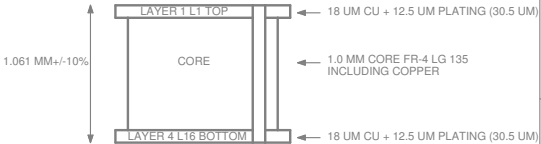
DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	87	YES
×	2	40	1.02	20	YES
□	3	55	1.40	2	NOT
◇	4	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 side (.SOL)

Rev. D

1234

A

LAYER-STACK

DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	87	YES
×	2	40	1.02	20	YES
□	3	55	1.40	2	NOT
◇	4	126	3.20	1	NOT

B

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Rev. D
JTAG_TDI
20150116

C

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

D

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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* 1 MM BOARD THICKNESS

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Domino Single USB

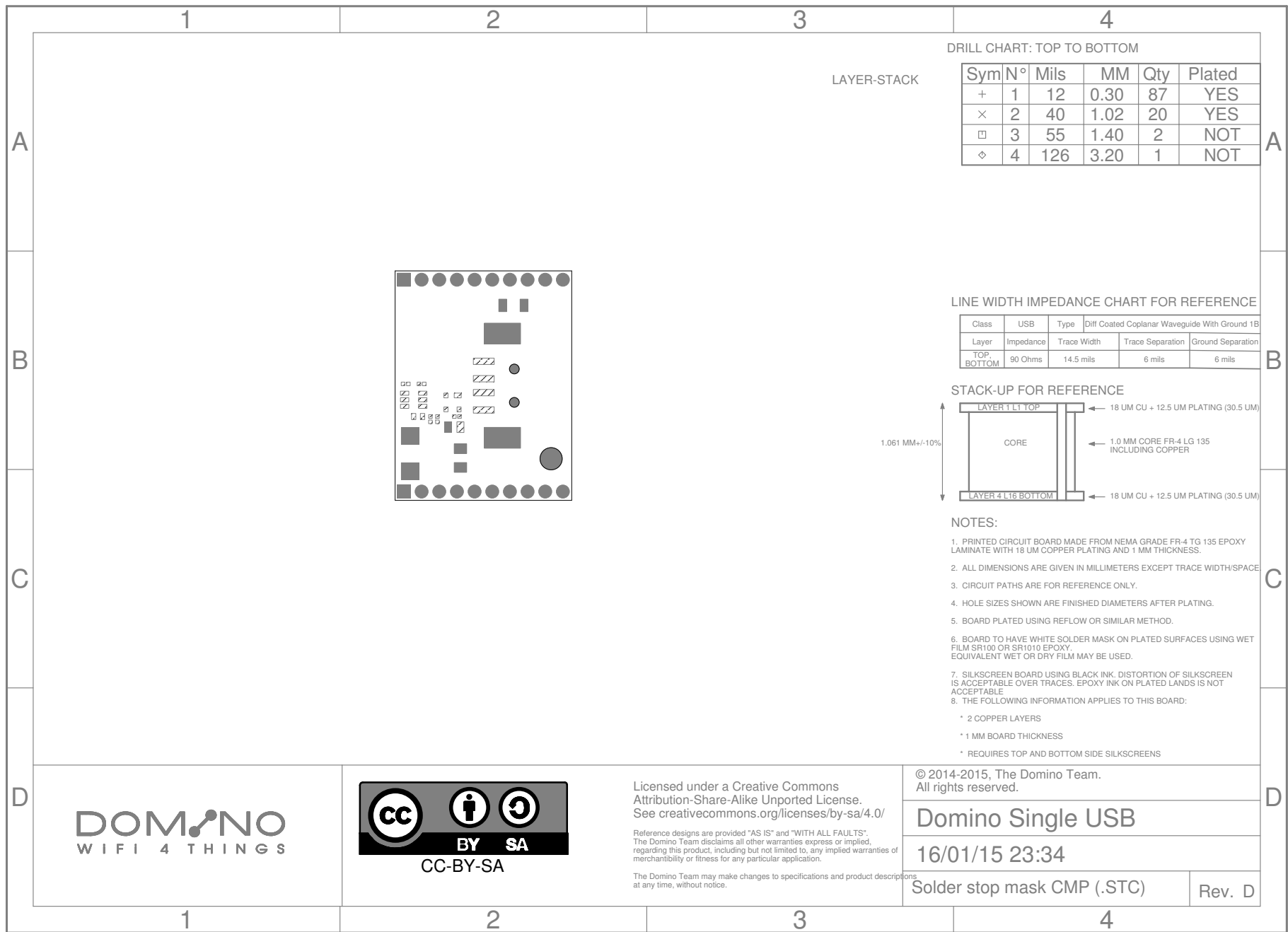
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Silk screen CMP (.PLC)

Rev. D

1234





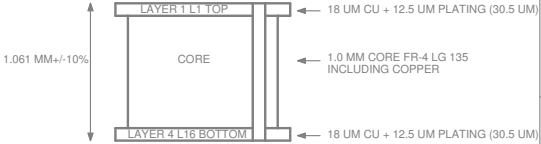
DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	87	YES
×	2	40	1.02	20	YES
□	3	55	1.40	2	NOT
◇	4	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

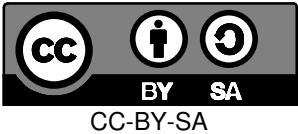
STACK-UP FOR REFERENCE



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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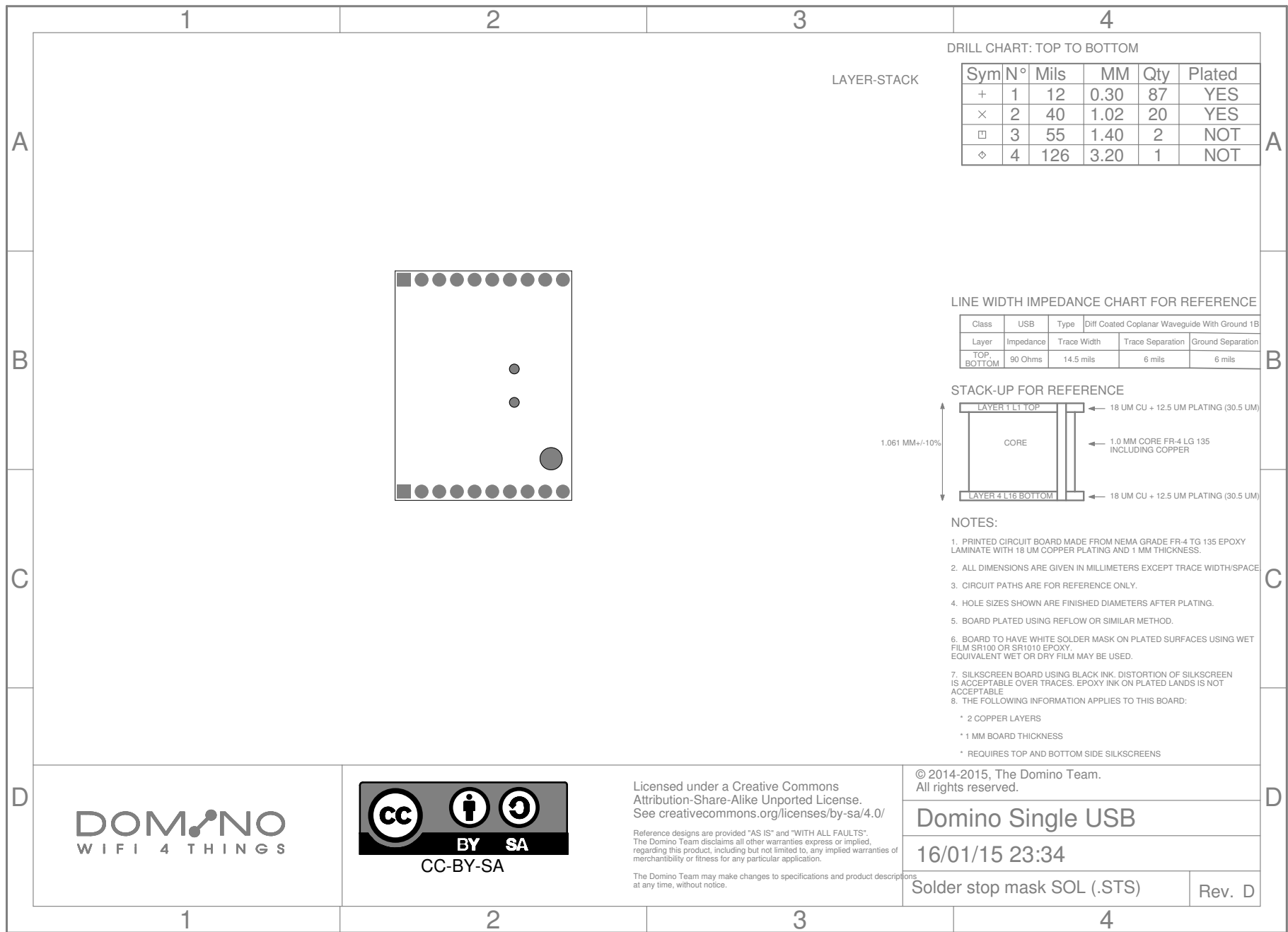
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Solder stop mask CMP (.STC)

Rev. D



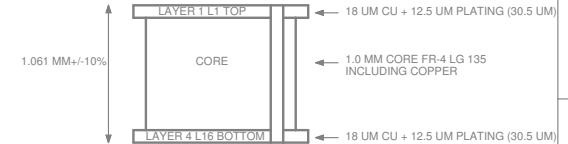
DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	87	YES
×	2	40	1.02	20	YES
□	3	55	1.40	2	NOT
◇	4	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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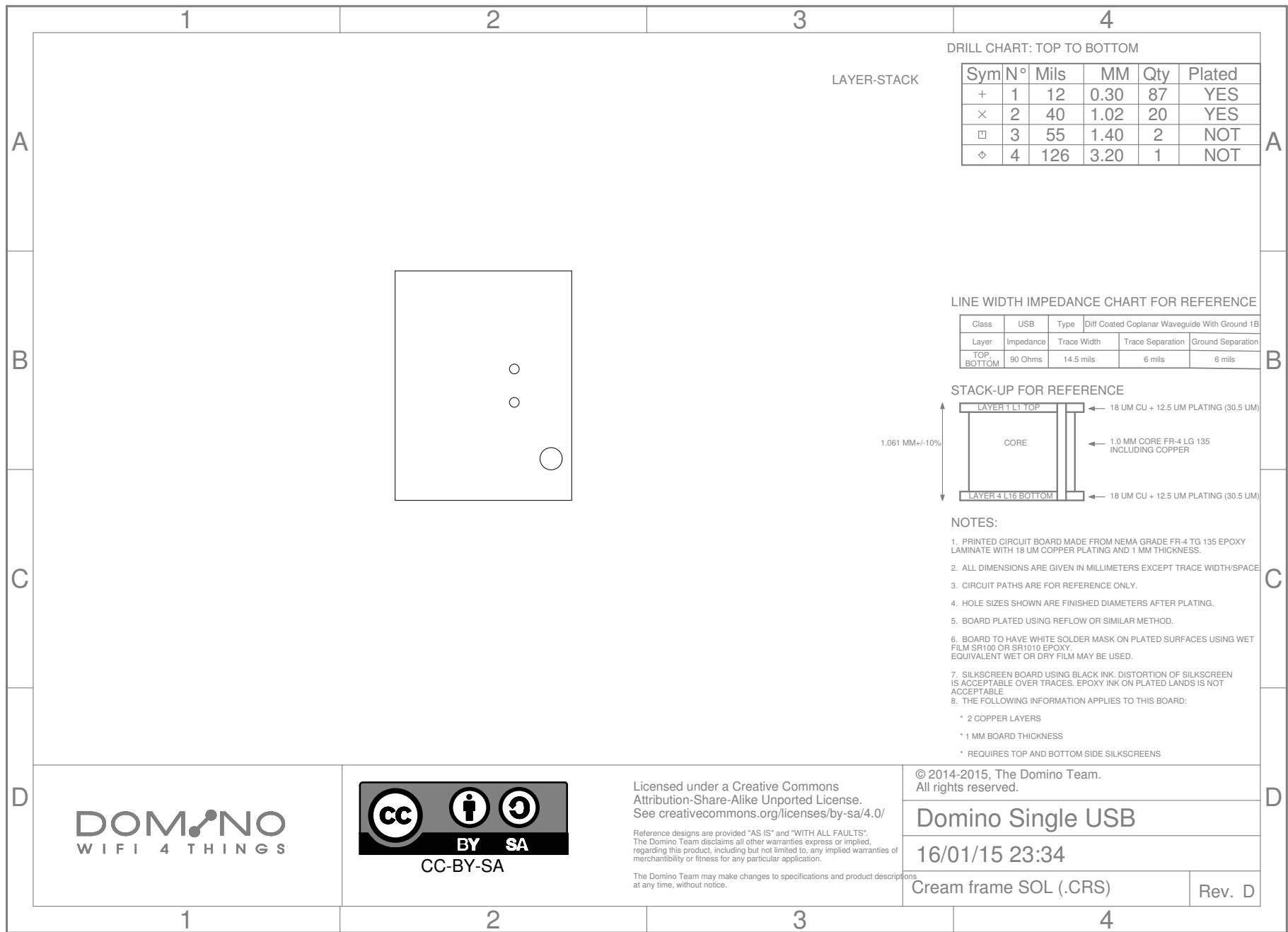
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Solder stop mask SOL (.STS)

Rev. D



DRILL CHART: TOP TO BOTTOM

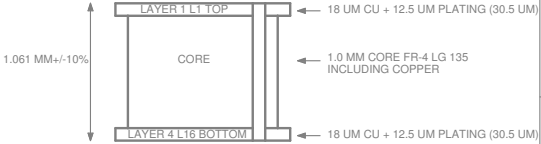
Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	87	YES
×	2	40	1.02	20	YES
□	3	55	1.40	2	NOT
◇	4	126	3.20	1	NOT

LAYER-STACK

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	

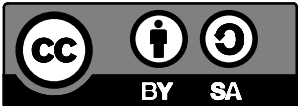
STACK-UP FOR REFERENCE



NOTES:

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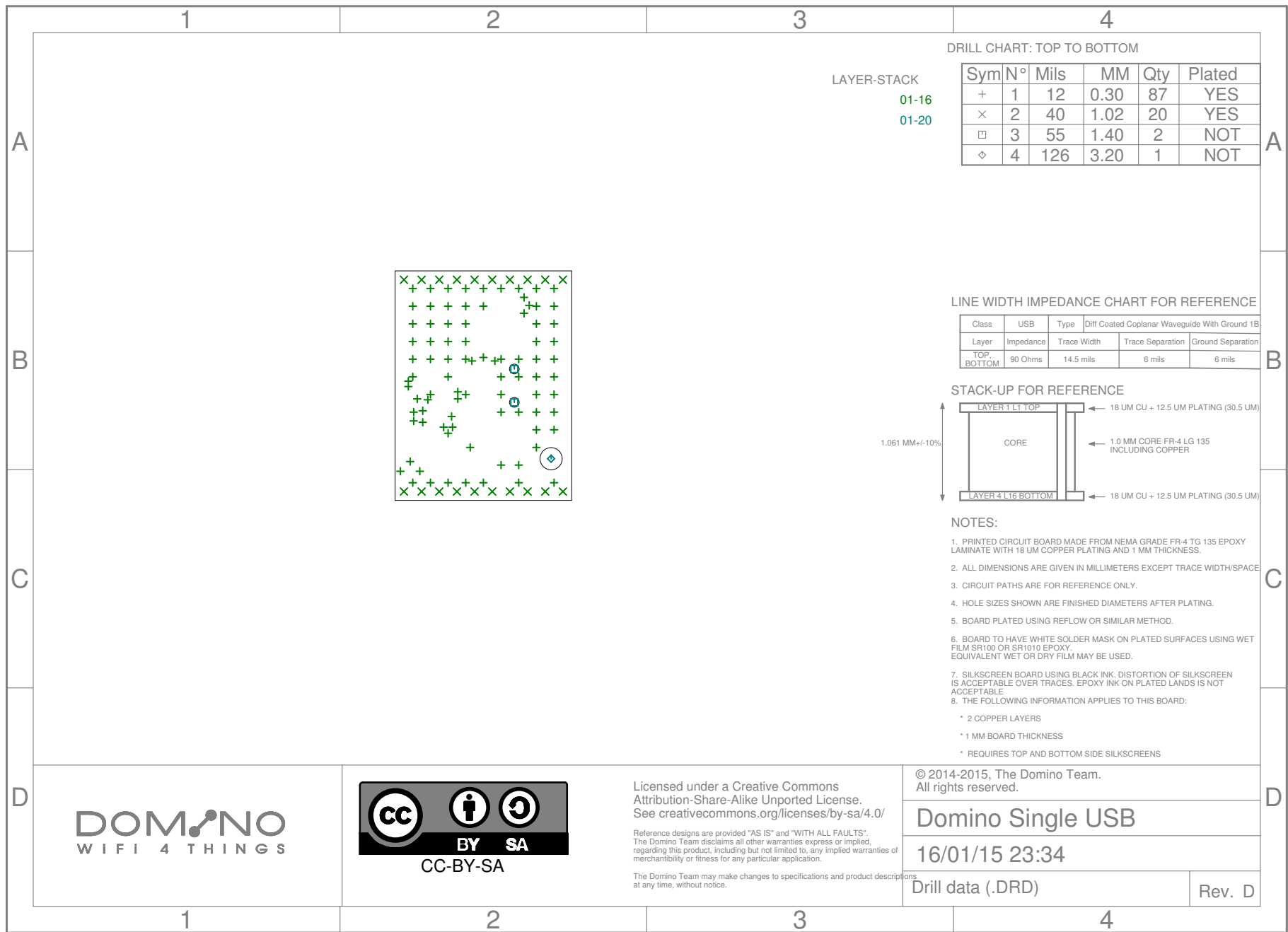
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Cream frame SOL (.CRS)

Rev. D



LAYER-STACK
01-16
01-20

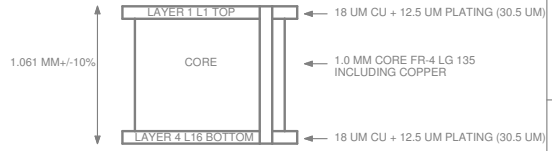
DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	87	YES
x	2	40	1.02	20	YES
□	3	55	1.40	2	NOT
◇	4	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

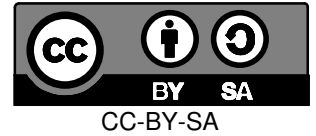


NOTES:

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Drill data (.DRD)

Rev. D

1234

A

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)

DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	87	YES
×	2	40	1.02	20	YES
□	3	55	1.40	2	NOT
◇	4	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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Component Assembly CMP (.ASC)

Rev. D

1234

B

LAYER-STACK

C1

C2

C3

C4

C5

L1

D1

R1

R2

R3

R4

R5

R6

R7

R8

R9

R10

R11

R12

R13

R14

R15

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1.061 MM +/- 10%

IL

Rev D
01102105

SL

LAYER-STACK

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	87	YES
×	2	40	1.02	20	YES
□	3	55	1.40	2	NOT
◇	4	126	3.20	1	NOT

DRILL CHART: TOP TO BOTTOM

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

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

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.

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

DOMINO

WIFI 4 THINGS

CC

BY

SA

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Domino Single USB

16/01/15 23:34

Component Assembly SOL (.ASS)

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Domino Single USB Rev. D

Item	Qty	Value	Manufacturer	Device	Package	Reference	Description	Remarks
1	110u		ANY	C0603_10u_X5R_20%_CER_6V3	C0603	C1	CAP CER 10UF 6.3V 20% X5R 0603	
2	1220u		ANY	CPOLC-6032_220u_20%_TANT_10V	C/6032-25	C2	CAP TANT 220UF 10V 20% 2413	
3	1100n		ANY	C0402_100n_X7R_10%_CER_50V	C0402	C3	CAP CER 0.1UF 50V 10% X7R 0402	
4	110u		ANY	C0805_10u_X5R_10%_CER_16V	C0805	C4	CAP CER 10UF 16V 10% X5R 0805	
5	11n		ANY	C1206_1n_X7R_10%_CER_500V	C1206	C5	CAP CER 1000PF 500V 10% X7R 1206	
6	1PRTR5V0U2X		NXP	PRTR5V0U2X	SOT143B	D1	TVS DIODE ARRAY 2CH 5V SOT143	
7	2MH10-1		ANY	MH10-1-0.1	MH10-1-0.1	J1, J2	CONN HEADER VERT .100 1ROW 10POS 8.08 HEAD 3.05 TAIL 15AU	
8	1USB_AF-006		SZJUSTWELL ELECTRONICS	USB_AF-006	USB_AF-006	J3	CONN USB A RECPT SMT R/A VERT	
9	1BLM31PG601SN1L		MURATA	BLM31PG601SN1L	FB1206	L1	FERRITE CHIP 600 OHM 1500MA 1206	
10	1100k		ANY	R0402_100k_5%_62.5mW	R0402	R1	RES 100K OHM 1/16W 5% 0402 SMD	
11	115k		ANY	R0402_15k_5%_62.5mW	R0402	R2	RES 15K OHM 1/16W 5% 0402 SMD	
12	20R		ANY	R0402_0R_5%_62.5mW	R0402	R3, R4	RES 0.0 OHM 1/16W JUMP 0402 SMD	
13	1 MP65151DJ		MONOLITHIC POWER	MP65151DJ	SOT23-6	U1	IC POWER SWITCH 1.7A SOT23-6	