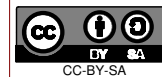


[illegible]

Resistors are 5% 1/16W 0402 unless otherwise specified  
Ceramic capacitors are  $\pm 10\%$  50V X7R dielectric 0402 unless otherwise specified



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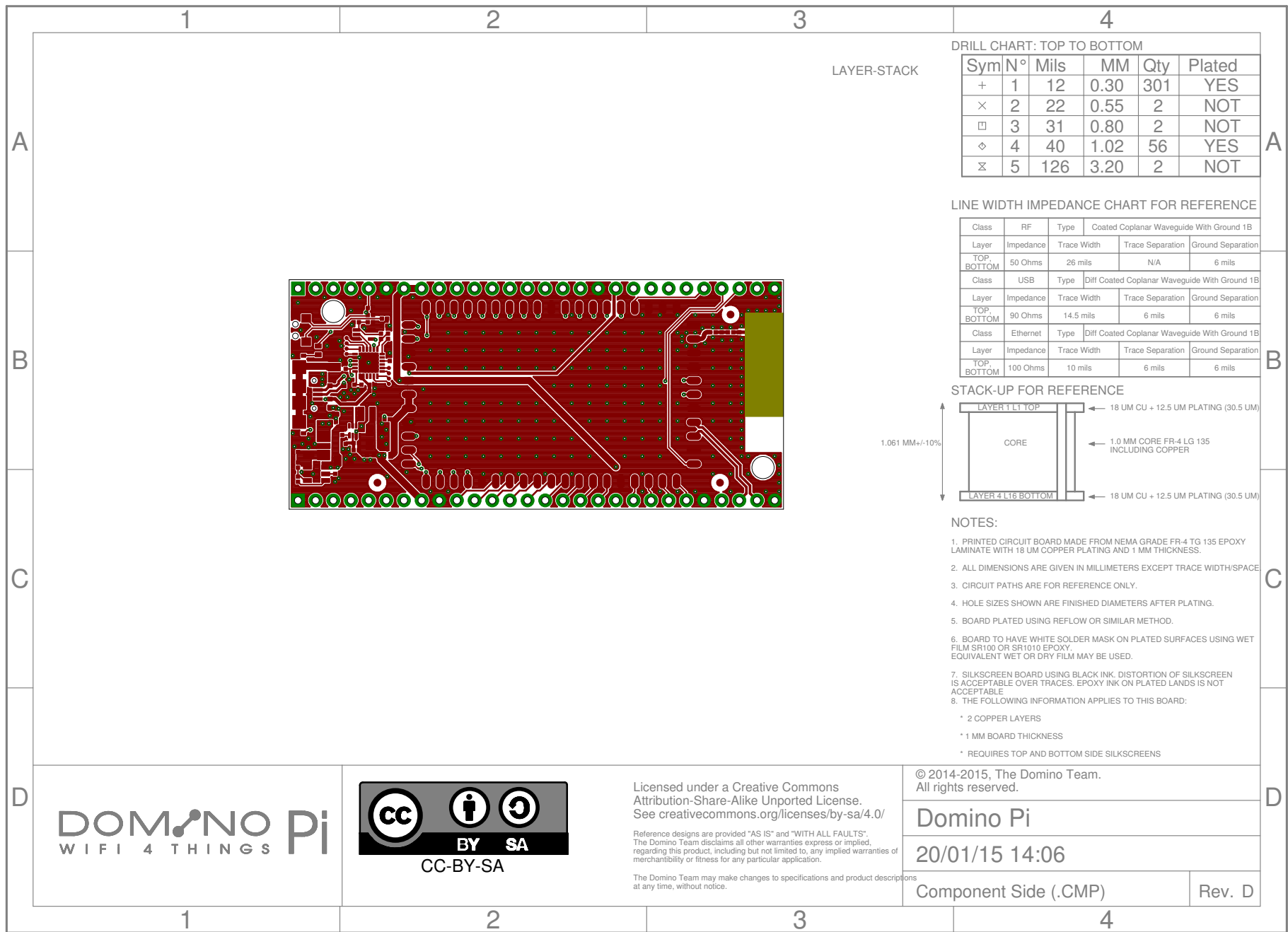
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Domino Pi

19/01/15 16:25

Sheet: 1/1

Rev.D





Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	301	YES
×	2	22	0.55	2	NOT
◇	3	31	0.80	2	NOT
◊	4	40	1.02	56	YES
⊗	5	126	3.20	2	NOT

Class	RF	Type	Coated Coplanar Waveguide With Ground 1B	
Layer	Impedance	Trace Width	Trace Separation	Ground Separation
TOP, BOTTOM	50 Ohms	26 mils	N/A	6 mils
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
Class	Ethernet	Type	Diff Coated Coplanar Waveguide With Ground 1B	
Layer	Impedance	Trace Width	Trace Separation	Ground Separation
TOP, BOTTOM	100 Ohms	10 mils	6 mils	6 mils

1.061 MM +/- 10%

LAYER 1 LT TOP

18 UM CU + 12.5 UM PLATING (30.5 UM)


CORE

1.0 MM CORE FR-4 LG 135 INCLUDING COPPER

LAYER 4 LT6 BOTTOM

18 UM CU + 12.5 UM PLATING (30.5 UM)

1. PRINTED CIRCUIT BOARD MADE FROM NEMA GRADE FR-4 TO 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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Solder side (.SOL)

Rev. D



Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	301	YES
×	2	22	0.55	2	NOT
□	3	31	0.80	2	NOT
◇	4	40	1.02	56	YES
⊗	5	126	3.20	2	NOT

Class	RF	Type	Coated Coplanar Waveguide With Ground 1B	
Layer	Impedance	Trace Width	Trace Separation	Ground Separation
TOP, BOTTOM	50 Ohms	26 mils	N/A	6 mils
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
Class	Ethernet	Type	Diff Coated Coplanar Waveguide With Ground 1B	
Layer	Impedance	Trace Width	Trace Separation	Ground Separation
TOP, BOTTOM	100 Ohms	10 mils	6 mils	6 mils

1.061 MM +/- 10%

LAYER 1 LT1 TOP

18 UM CU + 12.5 UM PLATING (30.5 UM)

CORE

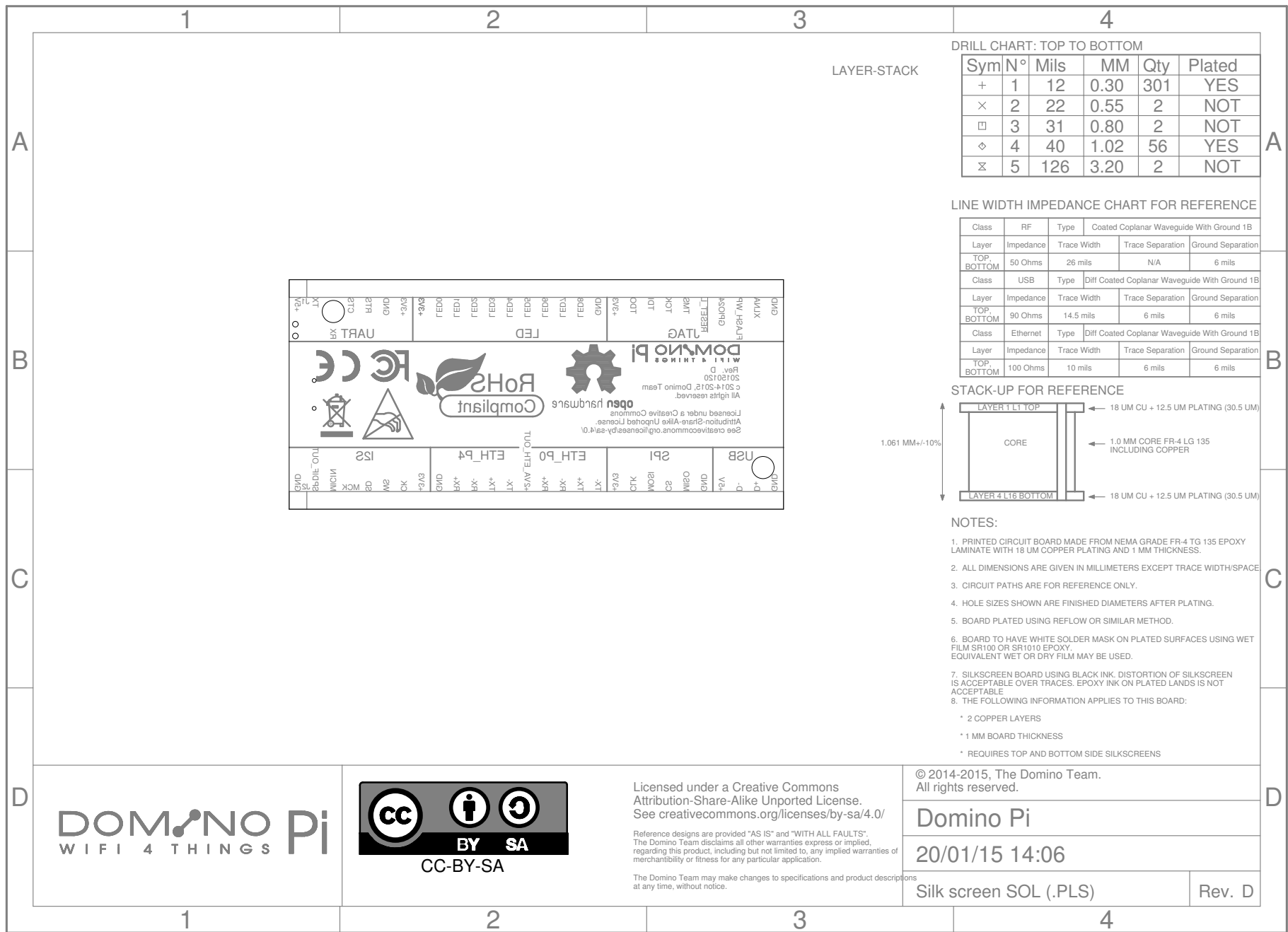
1.0 MM CORE FR-4 LG 135 INCLUDING COPPER

LAYER 4 LT16 BOTTOM

18 UM CU + 12.5 UM PLATING (30.5 UM)

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



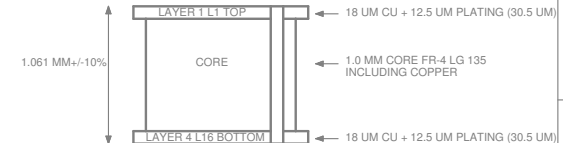
DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	301	YES
×	2	22	0.55	2	NOT
□	3	31	0.80	2	NOT
◇	4	40	1.02	56	YES
⊗	5	126	3.20	2	NOT

LINE WIDTH IMPEDANCE CHART FOR REFERENCE

Class	RF	Type	Coated Coplanar Waveguide With Ground 1B		
Layer	Impedance	Trace Width	Trace Separation	Ground Separation	
TOP, BOTTOM	50 Ohms	26 mils	N/A	6 mils	
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	
Class	Ethernet	Type	Diff Coated Coplanar Waveguide With Ground 1B		
Layer	Impedance	Trace Width	Trace Separation	Ground Separation	
TOP, BOTTOM	100 Ohms	10 mils	6 mils	6 mils	

STACK-UP FOR REFERENCE

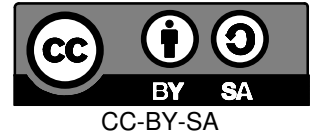


NOTES:

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.
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Domino Pi	
20/01/15 14:06	
Silk screen SOL (.PLS)	Rev. D

DOMINO Pi  
WIFI 4 THINGS

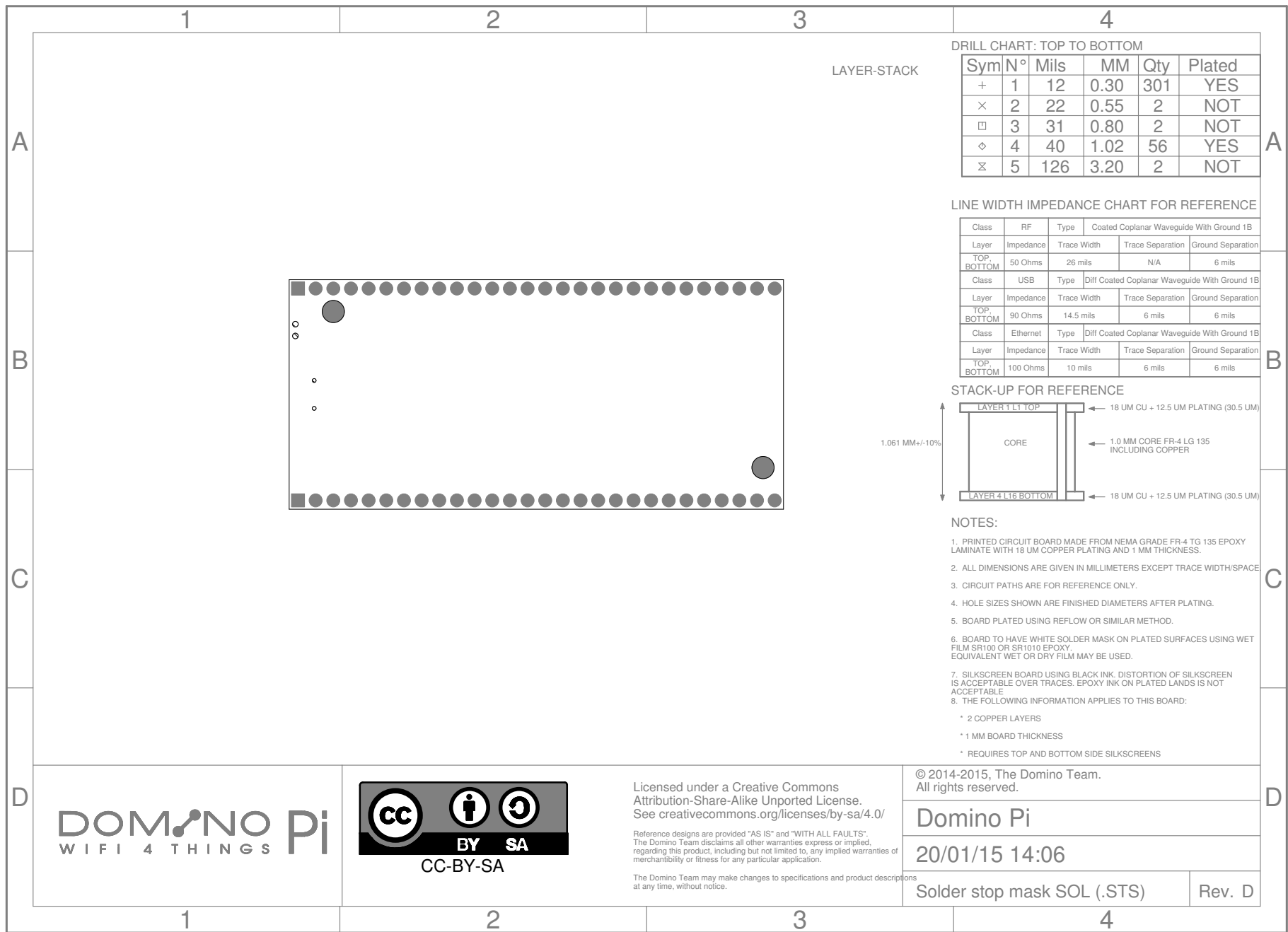


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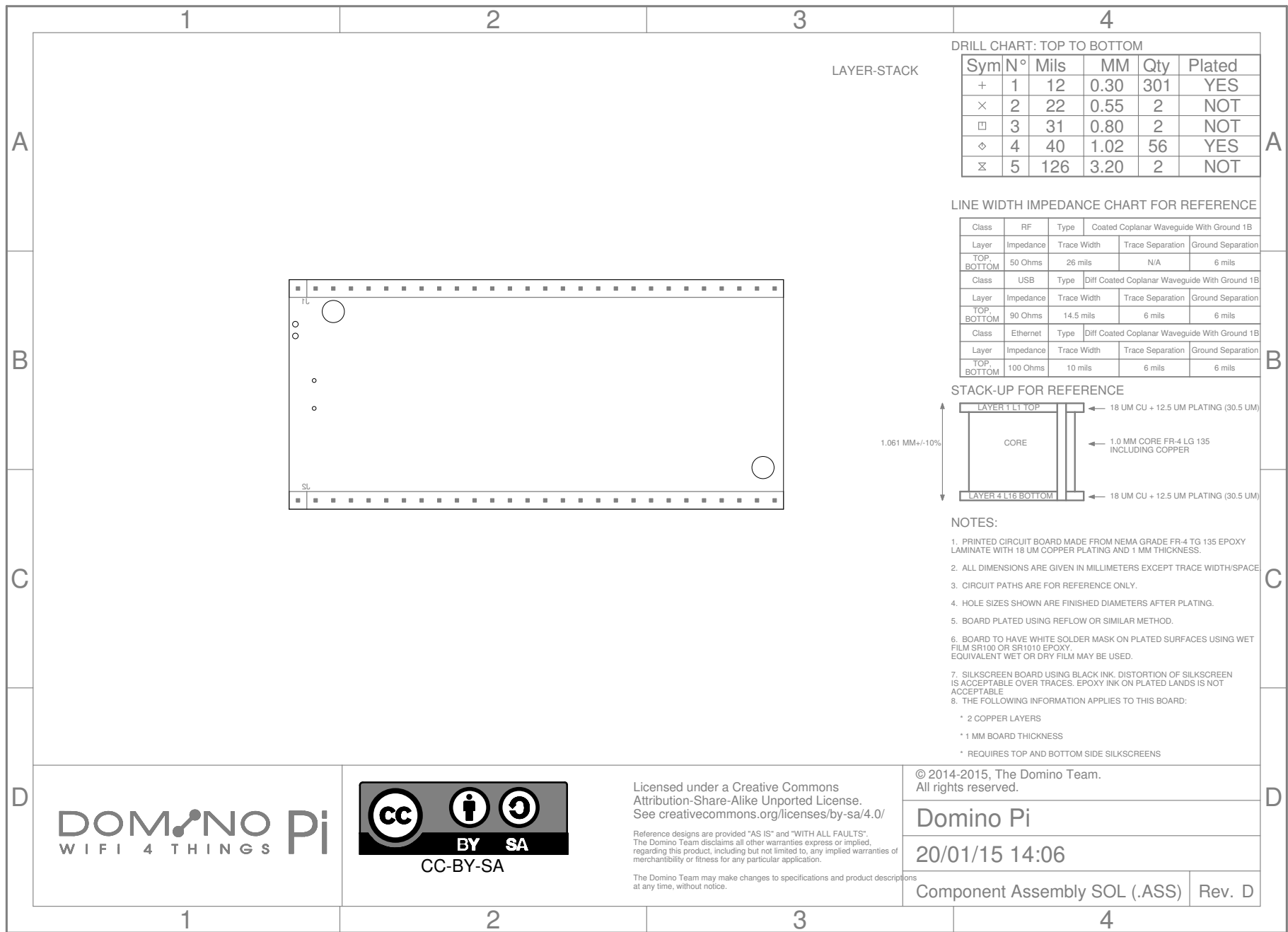


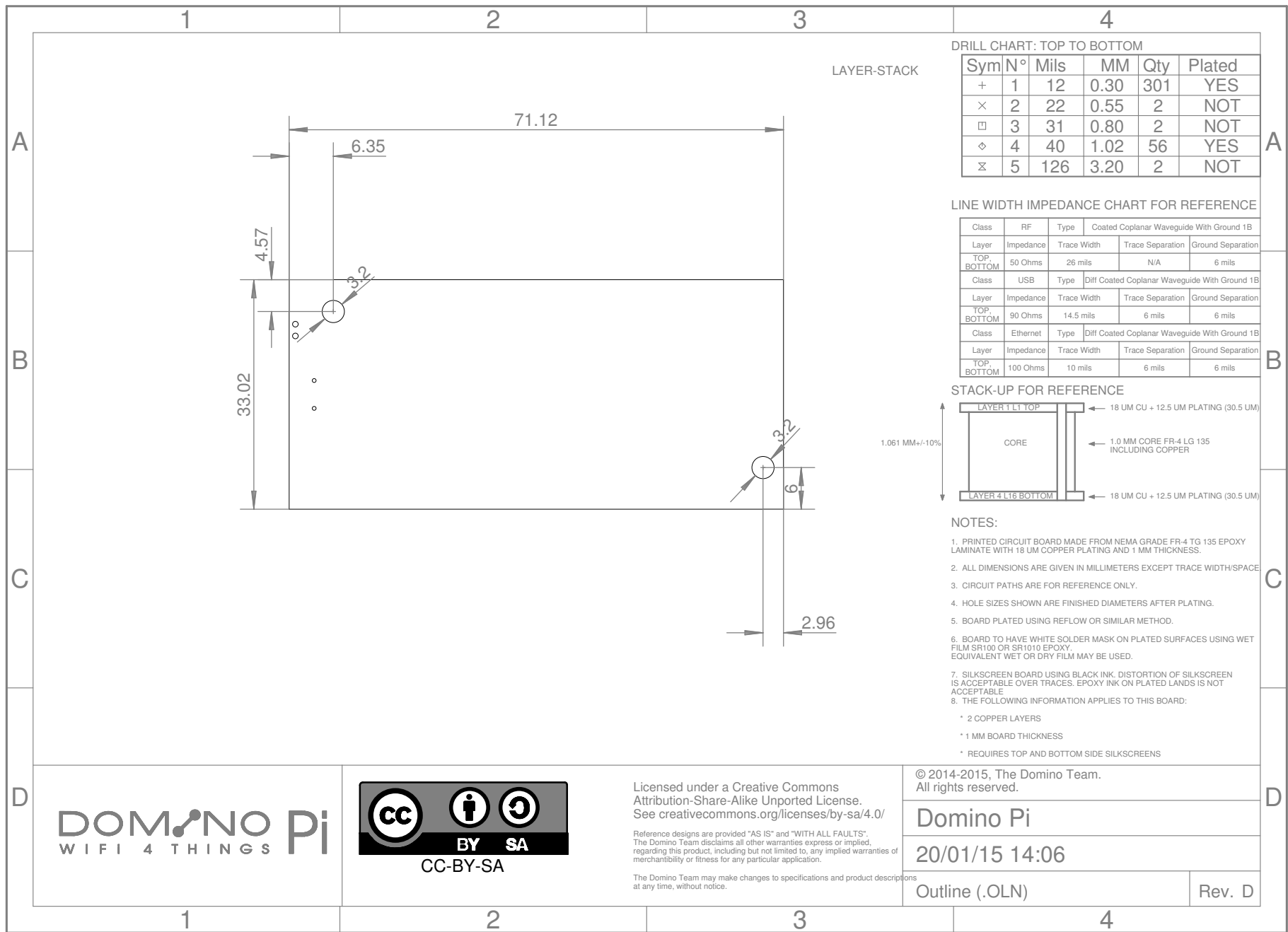








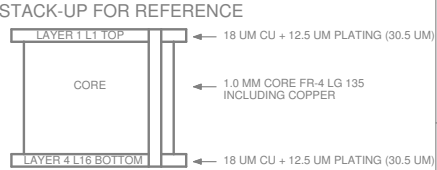




DRILL CHART: TOP TO BOTTOM

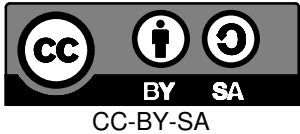
Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	301	YES
×	2	22	0.55	2	NOT
□	3	31	0.80	2	NOT
◇	4	40	1.02	56	YES
⊗	5	126	3.20	2	NOT

LINE WIDTH IMPEDANCE CHART FOR REFERENCE					
Class	RF	Type	Coated Coplanar Waveguide With Ground 1B		
Layer	Impedance	Trace Width	Trace Separation	Ground Separation	
TOP, BOTTOM	50 Ohms	26 mils	N/A	6 mils	
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	
Class	Ethernet	Type	Diff Coated Coplanar Waveguide With Ground 1B		
Layer	Impedance	Trace Width	Trace Separation	Ground Separation	
TOP, BOTTOM	100 Ohms	10 mils	6 mils	6 mils	



- NOTES:
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DOMINO Pi  
WIFI 4 THINGS



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Domino Pi

20/01/15 14:06

Outline (.OLN)

Rev. D



# Domino Pi Rev. D

1	2 10n	ANY	C0402_10n_X7R_10%_CER_50V	C0402	C1, C20	CAP CER 10000PF 50V 10% X7R 0402
2	2 11u	ANY	C0402_1u_X7R_10%_CER_25V	C0402	C12	CAP CER 1UF 25V 10% X7R 0402
3	2 22u	ANY	C0805_22u_X5R_20%_CER_6V3	C0805	C14, C16	CAP CER 22UF 6.3V 20% X5R 0805
4	2 11n	ANY	C1206_1n_X7R_10%_CER_500V	C1206	C2	CAP CER 1000PF 500V 10% X7R 1206
5	0 DNP	NONE	C0402_DNP	C0402	C21(DNP), C22(DNP)	CAP DNP 0402
6	2 122u	ANY	C1206_22u_X7R_20%_CER_10V	C0805	C3	CAP CER 22UF 10V 20% X7R 1206
7	2 10p	ANY	C0402_10p_NP0_5%_CER_50V	C0402	C4, C17	CAP CER 10PF 50V 5% NP0 0402
8	7 100n	ANY	C0402_100n_X7R_10%_CER_50V	C0402	C5, C6, C10, C11, C13, C15, C18	CAP CER 0.1UF 50V 10% X7R 0402
9	2 14u7	ANY	C0805_4u7_X5R_10%_CER_16V	C0805	C7	CAP CER 4.7UF 16V 10% X5R 0805
10	2 122p	ANY	C0402_22p_NP0_5%_CER_50V	C0402	C8	CAP CER 22PF 50V 5% NP0 0402
11	2 4u7	ANY	C0402_4u7_X5R_10%_CER_6V3	C0402	C9, C19	CAP CER 4.7UF 6.3V 10% X5R 0402
12	1 PRTR5V0U2X	NXP	PRTR5V0U2X	SOT143B	D1	TVS DIODE ARRAY 2CH 5V SOT143
13	1 RED	ANY	LED0402-RED	LED0402	D2	LED RED CLEAR 0402 SMD
14	1 BLUE	ANY	LED0402-BLUE	LED0402	D3	LED BLUE CLEAR 0402 SMD
15	2 MH28-1	ANY	MH28-1-0.1	MH28-1-0.1	J1, J2	CONN HEADER VERT .100 1ROW 28POS 10.5 TAIL 8.5 BODY 15AU
16	1 BLM31PG601SN1L	MURATA	BLM31PG601SN1L	FB1206	L1	FERRITE CHIP 600 OHM 1500MA 1206
17	1 SWPA252012S1R0NT	SUNLORD	SWPA252012SMT	SWPA252012S	L2	INDUCTOR 1.2UH 2.0A SMD2.5 X 2.0 X 1.2
18	1 DOMINO	GL-CONNECT	DOMINO-CORE	DOMINO	M1	MOD AR9331 WIFI
19	2 10k	ANY	R0402_10k_5%_62.5mW	R0402	R1, R15	RES 10K OHM 1/16W 5% 0402 SMD
20	2 1270R	ANY	R0402_270R_5%_62.5mW	R0402	R11	RES 270 OHM 1/16W 5% 0402 SMD
21	2 10R	ANY	R0603_OR_5%_125mW	R0603	R12	RES 0.0 OHM 1/8W JUMP SMD 0603
22	2 1270R	ANY	R0603_270R_5%_125mW	R0603	R13	RES 270 OHM 1/8W 5% 0603 SMD
23	2 11k	ANY	R0402_1k_5%_62.5mW	R0402	R17	RES 1K OHM 1/16W 5% 0402 SMD
24	2 133k2	ANY	R0402_33k2_1%_62.5mW	R0402	R2	RES 33.2K OHM 1/16W 1% 0402 SMD
25	2 1100k	ANY	R0402_100k_5%_62.5mW	R0402	R3	RES 100K OHM 1/16W 5% 0402 SMD
26	2 1150k	ANY	R0402_150k_1%_62.5mW	R0402	R4	RES 150K OHM 1/16W 1% 0402 SMD
27	2 50R	ANY	R0402_OR_5%_62.5mW	R0402	R5, R9, R10, R14, R16	RES 0.0 OHM 1/16W JUMP 0402 SMD
28	2 115k	ANY	R0402_15k_5%_62.5mW	R0402	R6	RES 15K OHM 1/16W 5% 0402 SMD
29	2 147k	ANY	R0402_47k_5%_62.5mW	R0402	R7, R8(DNP)	RES 47K OHM 1/16W 5% 0402 SMD
30	1 USB_MR5-001	SZJUSTWELL ELECTRONICS	USB MR5-001	USB-MR5-001	S1	CONN USB MICRO B RECPT SMT R/A
31	1 IT-1210	SZJUSTWELL ELECTRONICS	IT-1210	IT-1210	SW1	SWITCH TACTILE SPST-NO 0.05A 12V
32	1 MP65151DJ	MONOLITHIC POWER	MP65151DJ	SOT23-6	U1	IC POWER SWITCH 1.7A SOT23-6
33	1 MP2162GQH	MONOLITHIC POWER	MP2162GQH	QFN-8_2X1.5	U2	IC REG BUCK SYNC ADJ 2A 8WDFN
34	1 CP2104-F03-GM	SILICON LABORATORIES	CP2104-F03-GM	QFN-25_4X4	U3	IC SGL USB-TQ-UART BRIDGE 24QFN
35	1 74LVC1G125DCK	TEXAS INSTRUMENTS	74LVC1G125DCK	SC70	U4	IC BUFF/DVR TRI-ST N-INV SC705