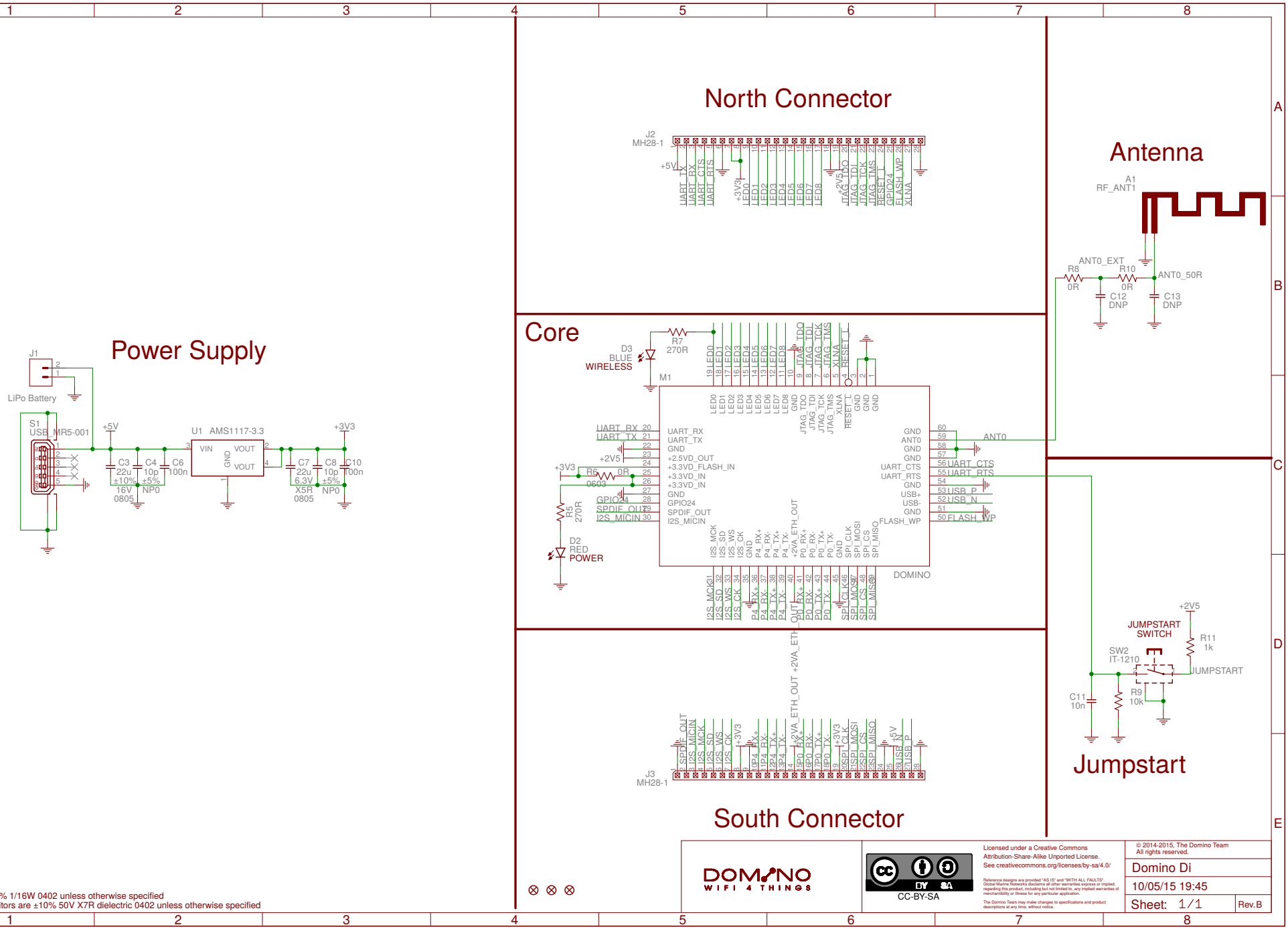
North Connector
J2
MH28-1
+5V
UART_TX
UART_RX
UART_CTS
UART_RTS
+3V3
LED0
LED1
LED2
LED3
LED4
LED5
LED6
LED7
LED8
+2V5
JTAG_TDO
JTAG_TDI
JTAG_TCK
JTAG_TMS
RESET_T
GPIO24
FLASH_WP
XLNA
Antenna
A1
RF_ANT1
ANT0_EXT
R8
0R
R10
0R
ANT0_50R
C12
DNP
C13
DNP
Power Supply
J1
LiPo Battery
S1
USB_MR5-001
+5V
C3
22u
±10%
16V
0805
C4
10p
±5%
NP0
C6
100n
U1 AMS1117-3.3
VIN
GND
VOUT
VOUT
+3V3
C7
22u
6.3V
X5R
0805
C8
10p
±5%
NP0
C10
100n
Core
D3
BLUE
WIRELESS
R7
270R
M1
LED0
LED1
LED2
LED3
LED4
LED5
LED6
LED7
LED8
GND
JTAG_TDO
JTAG_TDI
JTAG_TCK
JTAG_TMS
XLNA
RESET_T
GND
GND
GND
UART_RX
UART_TX
GND
+2.5VD_OUT
+3.3VD_FLASH_IN
+3.3VD_IN
+3.3VD_IN
GND
GPIO24
SPDIF_OUT
I2S_MICIN
I2S_MCK
I2S_SD
I2S_WS
I2S_CK
GND
P4_RX+
P4_RX-
P4_TX+
P4_TX-
+2VA_ETH_OUT
P0_RX+
P0_RX-
P0_TX+
P0_TX-
GND
SPI_CLK
SPI_MOSI
SPI_CS
SPI_MISO
GND
ANT0
GND
UART_CTS
UART_RTS
GND
USB+
USB-
GND
FLASH_WP
DOMINO
UART_RX
UART_TX
+2V5
+3V3
R6
0R
0603
GPIO24
R5
270R
SPDIF_OUT
I2S_MICIN
D2
RED
POWER
ANT0
UART_CTS
UART_RTS
USB_P
USB_N
FLASH_WP
Jumpstart
+2V5
JUMPSTART
SWITCH
SW2
IT-1210
R11
1k
JUMPSTART
C11
10n
R9
10k
South Connector
J3
MH28-1
SPDIF_OUT
I2S_MICIN
I2S_MCK
I2S_SD
I2S_WS
I2S_CK
+3V3
P4_RX+
P4_RX-
P4_TX+
P4_TX-
+2VA_ETH_OUT
P0_RX+
P0_RX-
P0_TX+
P0_TX-
+3V3
SPI_CLK
SPI_MOSI
SPI_CS
SPI_MISO
+5V
USB_N
USB_P
Resistors are 5% 1/16W 0402 unless otherwise specified
Ceramic capacitors are ±10% 50V X7R dielectric 0402 unless otherwise specified
DOMINO
WIFI 4 THINGS
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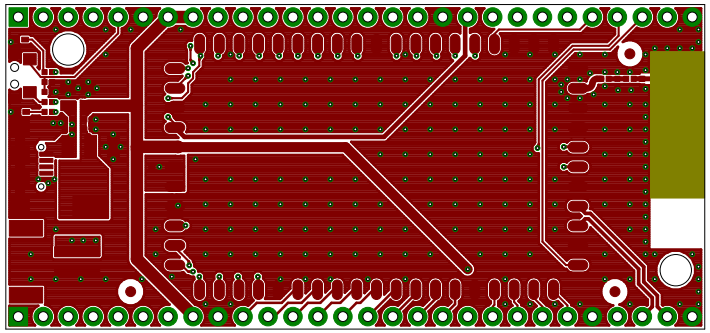
Sheet: 1/1
Rev.B

LAYER-STACK



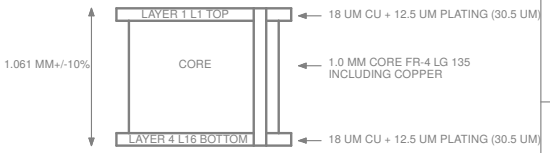
DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	262	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:

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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:
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   * 1 MM BOARD THICKNESS
   * REQUIRES TOP AND BOTTOM SIDE SILKSCREENS

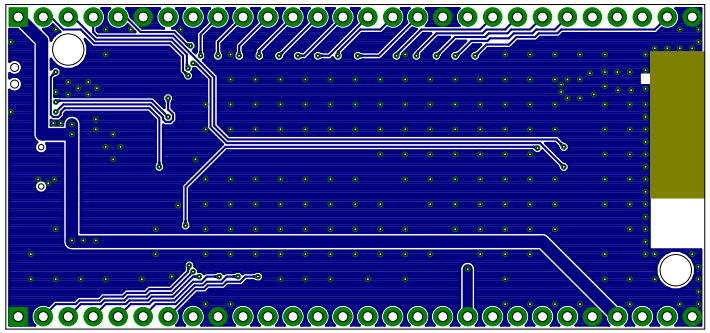
DOMINO
WIFI 4 THINGS

Domino Di

not saved!

Component Side (.CMP) | Rev. B

LAYER-STACK



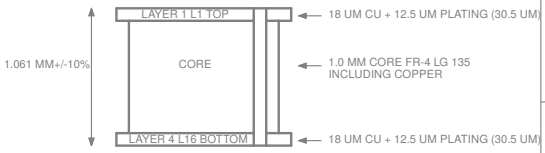
DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	262	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



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   * REQUIRES TOP AND BOTTOM SIDE SILKSCREENS

DOMINO
WIFI 4 THINGS

Domino Di

not saved!

Solder side (.SOL) | Rev. B

LAYER-STACK

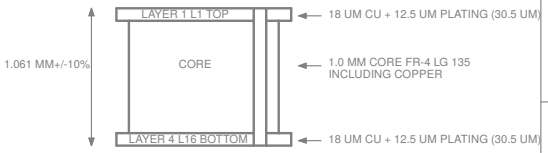
DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	262	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



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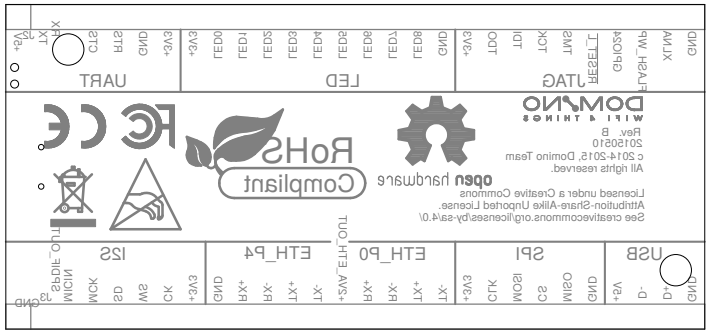
DOMINO
WIFI 4 THINGS

Domino Di

not saved!

Silk screen CMP (.PLC) | Rev. B

LAYER-STACK



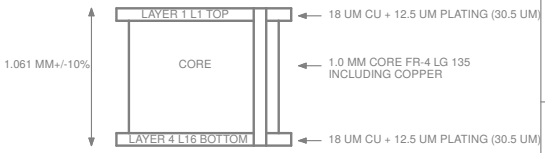
DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	262	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



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DOMINO
WIFI 4 THINGS

CC-BY-SA

Domino Di

not saved!

Silk screen SOL (.PLS) | Rev. B

LAYER-STACK

DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	262	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
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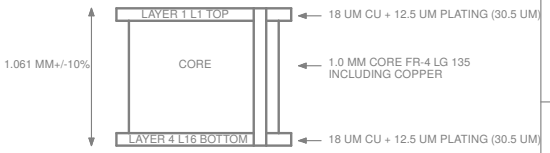
TOP, BOTTOM	90 Ohms	14.5 mils		6 mils	6 mils
Class	Ethernet	Type	Diff Coated Coplanar Waveguide With Ground 1B		
Layer	Impedance	Trace Width		Trace Separation	Ground Separation
TOP, BOTTOM	100 Ohms	10 mils		6 mils	6 mils

STACK-UP FOR REFERENCE



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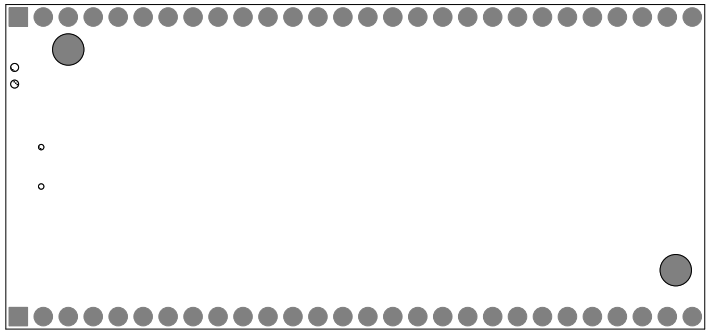
DOMINO
WIFI 4 THINGS

Domino Di

not saved!

Solder stop mask CMP (.STC) | Rev. B

LAYER-STACK



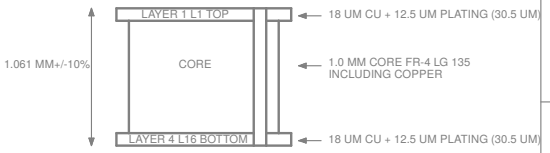
DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	262	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



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DOMINO
WIFI 4 THINGS

Domino Di

not saved!

Solder stop mask SOL (.STS) | Rev. B

LAYER-STACK

DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	262	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		
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TOP, BOTTOM	90 Ohms	14.5 mils		6 mils	6 mils
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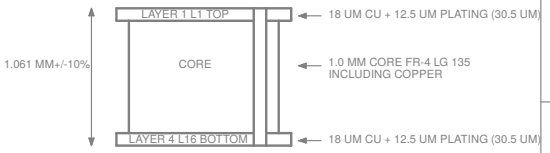
Layer	Impedance	Trace Width		Trace Separation	Ground Separation
TOP, BOTTOM	100 Ohms	10 mils		6 mils	6 mils

STACK-UP FOR REFERENCE



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DOMINO
WIFI 4 THINGS

Domino Di

not saved!

Cream frame CMP (.CRC) | Rev. B

LAYER-STACK

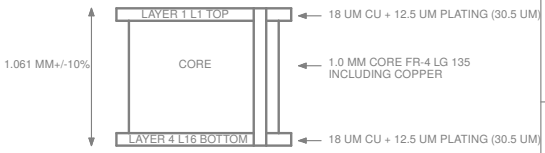
DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	262	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



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DOMINO
WIFI 4 THINGS

Domino Di

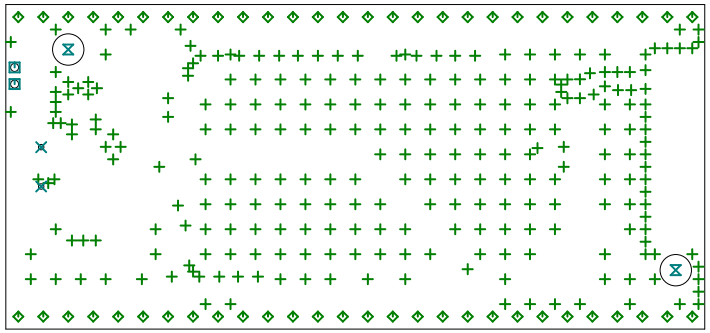
not saved!

Cream frame SOL (.CRS) | Rev. B

LAYER-STACK

01-16

01-20



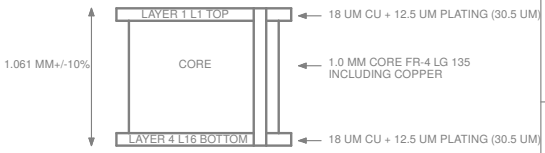
DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	262	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



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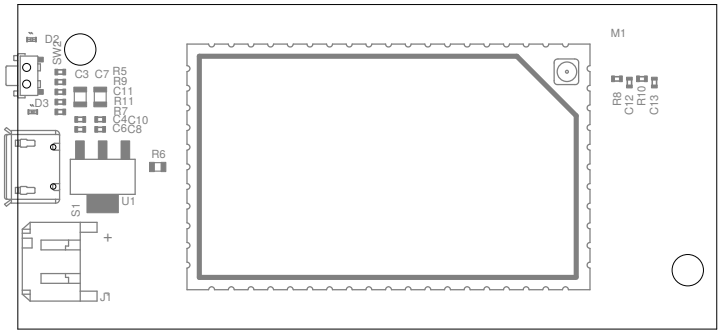
DOMINO
WIFI 4 THINGS

Domino Di

not saved!

Drill data (.DRD) | Rev. B

LAYER-STACK



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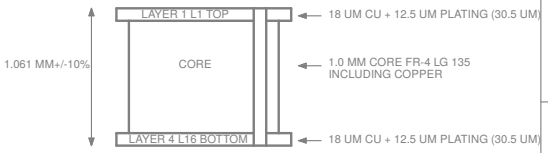

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DOMINO
WIFI 4 THINGS

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Component Assembly CMP (.ASC) | Rev. B

LAYER-STACK

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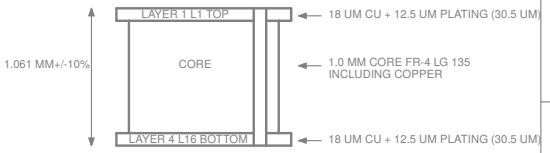

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DOMINO
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Domino Di

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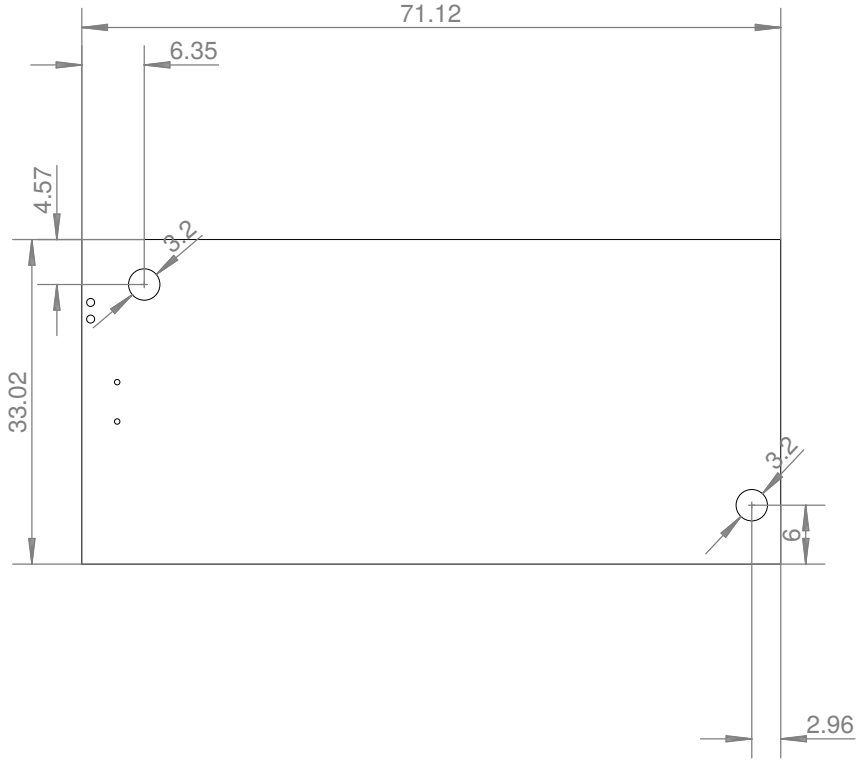
Component Assembly SOL (.ASS) | Rev. B

LAYER-STACK



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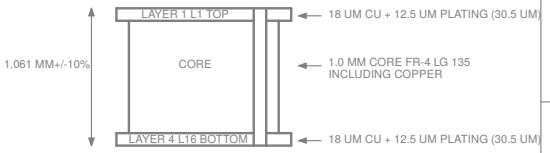

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DOMINO
WIFI 4 THINGS

CC-BY-SA

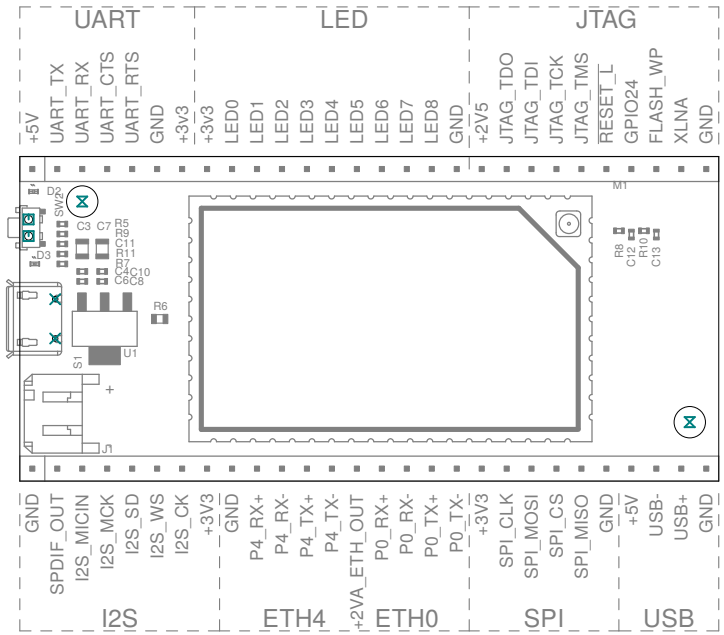
Domino Di

not saved!

Outline (.OLN) | Rev. B

LAYER-STACK

01-20



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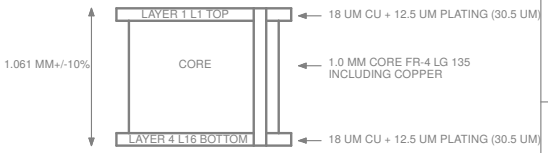

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DOMINO
WIFI 4 THINGS

CC-BY-SA

Domino Di

not saved!

Pinout (.PIN) | Rev. B

Domino Di Rev. B

Item	Qty	Value	Manufacturer	Device	Package	Reference	Description	Remarks
1	1	ANY	2n2	C1210_2n2_X7R_10%_CER_2kV	C1206	C1	CAP CER 2200PF 1KV 10% X7R 1210	
2	5	ANY	100n	C0402_100n_X7R_10%_CER_50V	C0402	C2, C3, C4, C5, C6	CAP CER 0.1UF 50V 10% X7R 0402	
3	1	ANY	BLUE	LED0603-BLUE	LED0603	D1	LED BLUE CLEAR 0603 SMD	
4	1	ANY	WHITE	LED0603-WHITE	LED0603	D2	LED WHITE CLEAR 0603 SMD	
5	4	ANY	GREEN	LED0603-GREEN	LED0603	D3, D4, D5, D6	LED GREEN CLEAR 0603 SMD	
6	1	ANY	RED	LED0603-ORANGE	LED0603	D7	LED ORANGE CLEAR 0603 SMD	
7	1	ANY	ORANGE	LED0603-ORANGE	LED0603	D8	LED ORANGE CLEAR 0603 SMD	
8	1	ANY	YELLOW	LED0603-YELLOW	LED0603	D9	LED YELLOW CLEAR 0603 SMD	
9	1	SHEZHEN HUILY ELECT	HBJ-2H101NLF	HBJ-2H101NLF	HBJ-2H101NLF	J1	CONN MAGJACK 2PORT 100 BASE-T	
10	1	ANY	MH3-1	MH3-1-0.1	MH3-1-0.1	J2	CONN HEADER VERT .100 1ROW 3POS 8.08 HEAD 3.05 TAIL 15AU	
11	2	ANY	MH18-1	MH18-1-0.1	MH18-1-0.1	J3, J4	CONN HEADER VERT .100 1ROW 18POS 8.08 HEAD 3.05 TAIL 15AU	
12	1	ANY	4k7	R0402_4k7_5%_62.5mW	R0402	R1	RES 4.7K OHM 1/16W 5% 0402 SMD	
13	6	ANY	270R	R0603_270R_5%_125mW	R0603	R12, R13, R14, R15, R16, R17	RES 270 OHM 1/8W 5% 0603 SMD	
14	3	ANY	330R	R0603_330R_5%_125mW	R0603	R18, R19, R20	RES 330 OHM 1/8W 5% 0603 SMD	
15	1	ANY	15k	R0402_15k_5%_62.5mW	R0402	R2	RES 15K OHM 1/16W 5% 0402 SMD	
16	1	ANY	220R	R0402_220R_5%_62.5mW	R0402	R3	RES 220 OHM 1/16W 5% 0402 SMD	
17	8	ANY	49R9	R0402_49R9_1%_62.5mW	R0402	R4, R5, R6, R7, R8, R9, R10, R11	RES 49.9 OHM 1/16W 1% 0402 SMD	