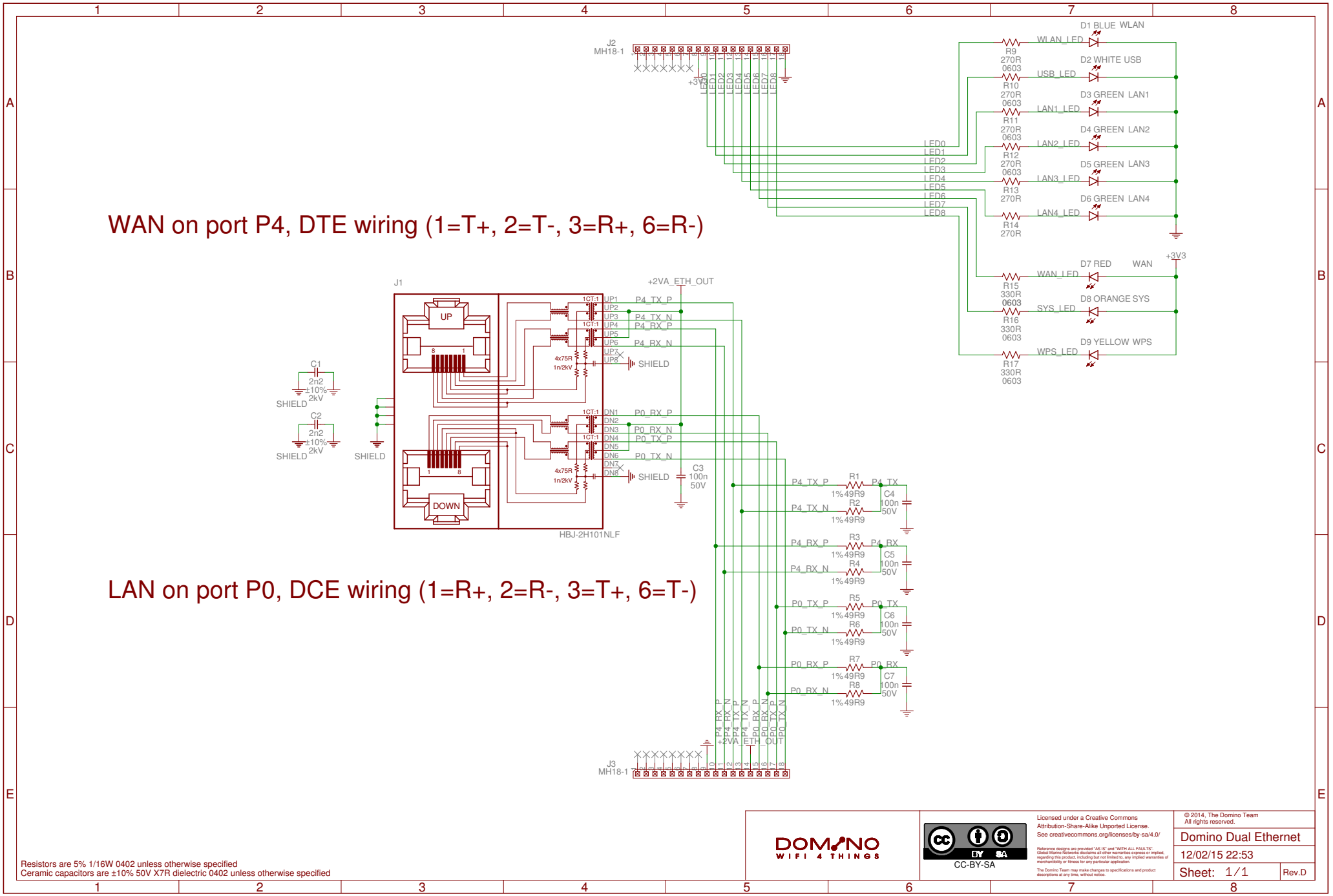
WAN on port P4, DTE wiring (1=T+, 2=T-, 3=R+, 6=R-)
LAN on port P0, DCE wiring (1=R+, 2=R-, 3=T+, 6=T-)
J2
MH18-1
J1
J3
HBJ-2H101NLF
D1 BLUE WLAN
D2 WHITE USB
D3 GREEN LAN1
D4 GREEN LAN2
D5 GREEN LAN3
D6 GREEN LAN4
D7 RED WAN
D8 ORANGE SYS
D9 YELLOW WPS
+3V3
+2VA_ETH_OUT
P4_TX_P
P4_TX_N
P4_RX_P
P4_RX_N
P0_RX_P
P0_RX_N
P0_TX_P
P0_TX_N
SHIELD
Resistors are 5% 1/16W 0402 unless otherwise specified
Ceramic capacitors are ±10% 50V X7R dielectric 0402 unless otherwise specified
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WIFI 4 THINGS
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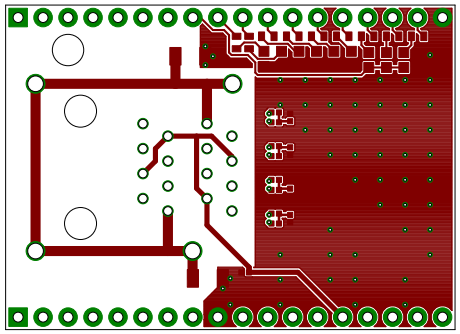
Domino Dual Ethernet
12/02/15 22:53
Sheet: 1/1
Rev.D

LAYER-STACK

DRILL CHART: TOP TO BOTTOM

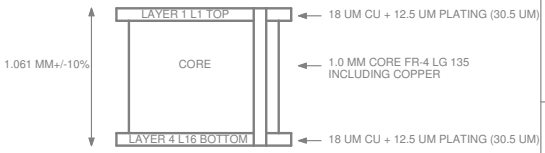
Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	61	YES
×	2	35	0.89	16	YES
◰	3	40	1.02	36	YES
◇	4	63	1.60	4	YES
⧖	5	126	3.20	1	NOT
⋈	6	128	3.25	2	NOT



LINE WIDTH IMPEDANCE CHART FOR REFERENCE

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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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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   * REQUIRES TOP AND BOTTOM SIDE SILKSCREENS

DOMINO
WIFI 4 THINGS

Domino Dual Ethernet

12/02/15 22:59

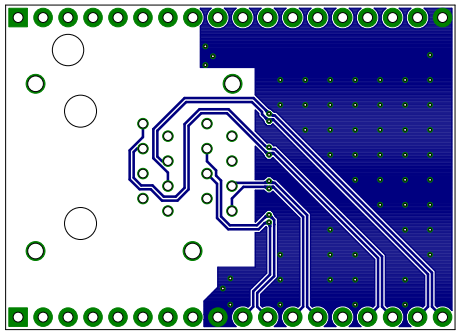
Component Side (.CMP)

Rev. D

LAYER-STACK

DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	61	YES
×	2	35	0.89	16	YES
◰	3	40	1.02	36	YES
◇	4	63	1.60	4	YES
⧖	5	126	3.20	1	NOT
⋈	6	128	3.25	2	NOT



LINE WIDTH IMPEDANCE CHART FOR REFERENCE

Class	Ethernet	Type	Diff Coated Coplanar Waveguide With Ground 1B	
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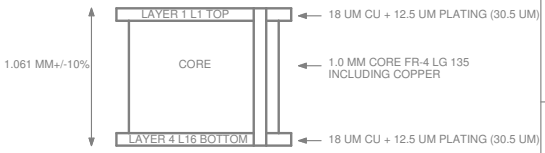
STACK-UP FOR REFERENCE



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WIFI 4 THINGS

Domino Dual Ethernet

12/02/15 22:59

Solder side (.SOL)

Rev. D

LAYER-STACK

DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
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×	2	35	0.89	16	YES
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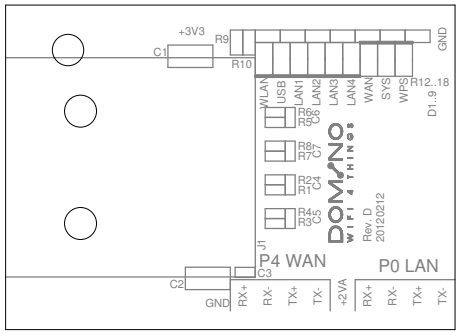
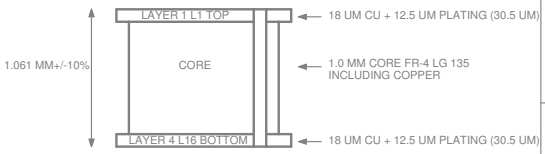


LINE WIDTH IMPEDANCE CHART FOR REFERENCE

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 Dual Ethernet

12/02/15 22:59

Silk screen CMP (.PLC)

Rev. D

LAYER-STACK

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+	1	12	0.30	61	YES
×	2	35	0.89	16	YES
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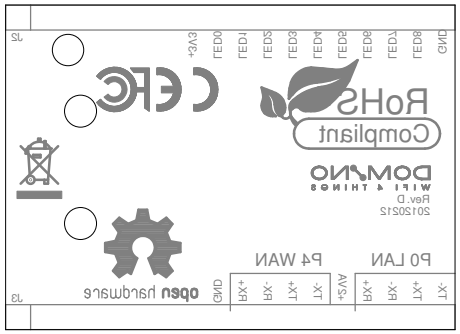
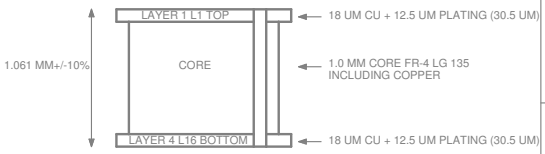


LINE WIDTH IMPEDANCE CHART FOR REFERENCE

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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WIFI 4 THINGS

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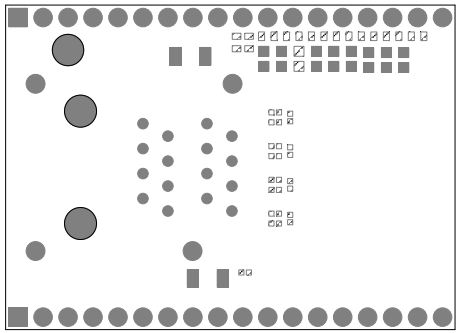
12/02/15 22:59

Silk screen SOL (.PLS)

Rev. D

LAYER-STACK



DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
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×	2	35	0.89	16	YES
◰	3	40	1.02	36	YES
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LINE WIDTH IMPEDANCE CHART FOR REFERENCE

Class	Ethernet	Type	Diff Coated Coplanar Waveguide With Ground 1B		
Layer	Impedance	Trace Width		Trace Separation	Ground Separation
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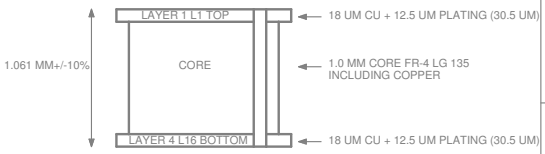
STACK-UP FOR REFERENCE



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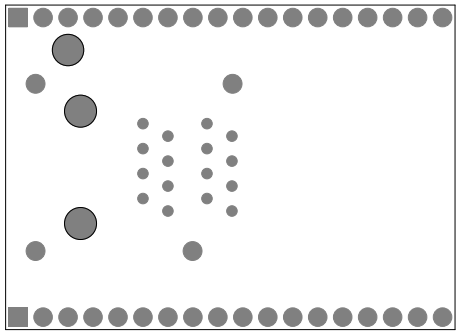
Domino Dual Ethernet

12/02/15 22:59

Solder stop mask CMP (.STC)

Rev. D

LAYER-STACK



DRILL CHART: TOP TO BOTTOM

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+	1	12	0.30	61	YES
×	2	35	0.89	16	YES
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LINE WIDTH IMPEDANCE CHART FOR REFERENCE

Class	Ethernet	Type	Diff Coated Coplanar Waveguide With Ground 1B		
Layer	Impedance	Trace Width		Trace Separation	Ground Separation
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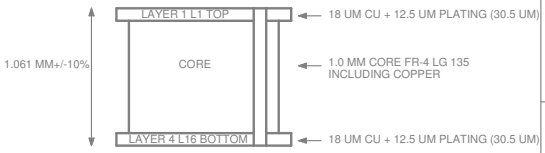
STACK-UP FOR REFERENCE



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DOMINO
WIFI 4 THINGS

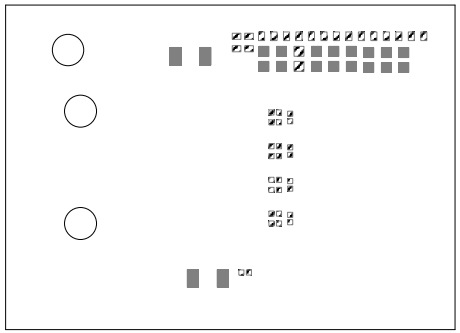
Domino Dual Ethernet

12/02/15 22:59

Solder stop mask SOL (.STS)

Rev. D

LAYER-STACK



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Class	Ethernet	Type	Diff Coated Coplanar Waveguide With Ground 1B	
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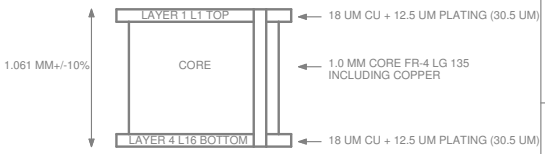

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DOMINO
WIFI 4 THINGS

Domino Dual Ethernet

12/02/15 22:59

Cream frame CMP (.CRC)

Rev. D

LAYER-STACK

DRILL CHART: TOP TO BOTTOM

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+	1	12	0.30	61	YES
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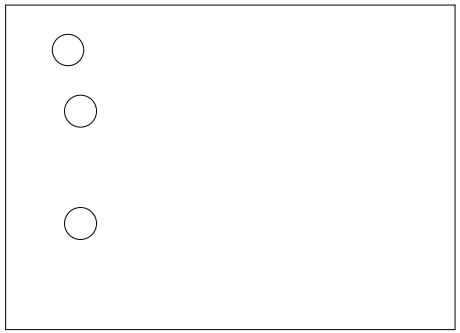

LINE WIDTH IMPEDANCE CHART FOR REFERENCE

Class	Ethernet	Type	Diff Coated Coplanar Waveguide With Ground 1B	
Layer	Impedance	Trace Width	Trace Separation	Ground Separation
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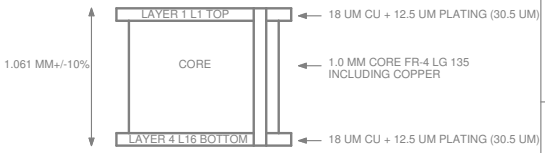

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DOMINO
WIFI 4 THINGS

Domino Dual Ethernet

12/02/15 22:59

Cream frame SOL (.CRS)

Rev. D

DRILL CHART: TOP TO BOTTOM

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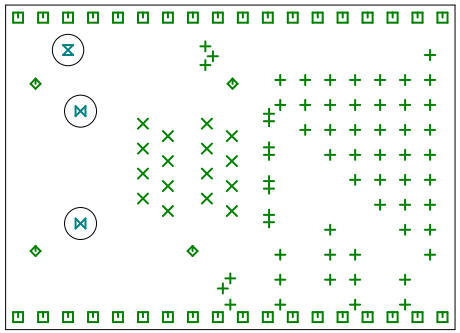
LAYER-STACK

01-16

01-20



LINE WIDTH IMPEDANCE CHART FOR REFERENCE

Class	Ethernet	Type	Diff Coated Coplanar Waveguide With Ground 1B		
Layer	Impedance	Trace Width		Trace Separation	Ground Separation
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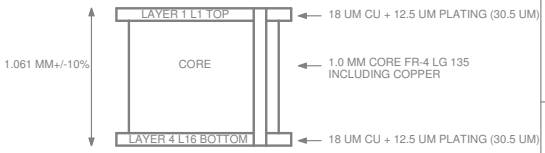

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5. BOARD PLATED USING REFLOW OR SIMILAR METHOD.
6. BOARD TO HAVE WHITE SOLDER MASK ON PLATED SURFACES USING WET FILM SR100 OR SR1010 EPOXY.
EQUIVALENT WET OR DRY FILM MAY BE USED.
7. SILKSCREEN BOARD USING BLACK INK. DISTORTION OF SILKSCREEN IS ACCEPTABLE OVER TRACES. EPOXY INK ON PLATED LANDS IS NOT ACCEPTABLE.
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

Domino Dual Ethernet

12/02/15 22:59

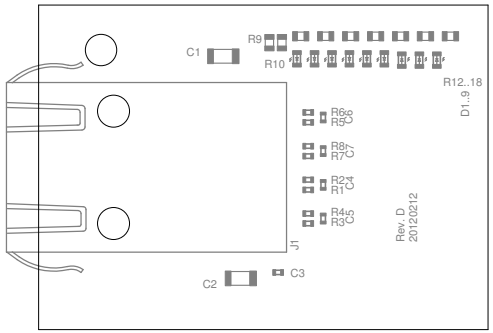
Drill data (.DRD)

Rev. D

DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	61	YES
×	2	35	0.89	16	YES
◳	3	40	1.02	36	YES
◈	4	63	1.60	4	YES
⧖	5	126	3.20	1	NOT
⋈	6	128	3.25	2	NOT

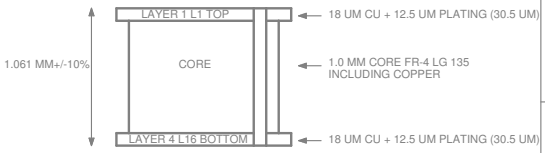
LAYER-STACK



LINE WIDTH IMPEDANCE CHART FOR REFERENCE

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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DOMINO
WIFI 4 THINGS

Domino Dual Ethernet

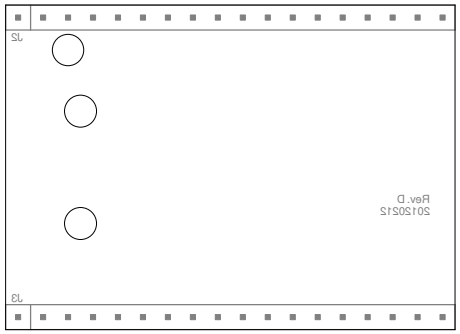
12/02/15 22:59

Component Assembly CMP (.ASC) | Rev. D

LAYER-STACK

DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	61	YES
×	2	35	0.89	16	YES
◰	3	40	1.02	36	YES
◇	4	63	1.60	4	YES
⧖	5	126	3.20	1	NOT
⋈	6	128	3.25	2	NOT



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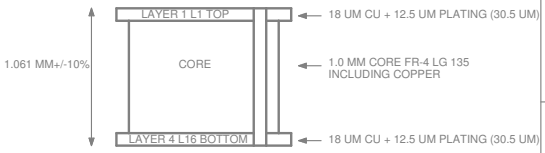

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DOMINO
WIFI 4 THINGS

Domino Dual Ethernet

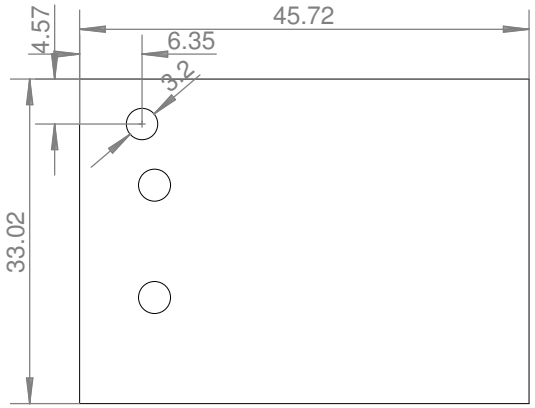
12/02/15 22:59

Component Assembly SOL (.ASS) | Rev. D

LAYER-STACK

DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	61	YES
×	2	35	0.89	16	YES
◰	3	40	1.02	36	YES
◇	4	63	1.60	4	YES
⧖	5	126	3.20	1	NOT
⋈	6	128	3.25	2	NOT



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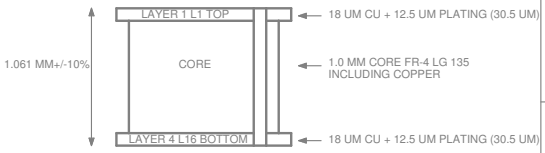

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DOMINO
WIFI 4 THINGS

Domino Dual Ethernet

12/02/15 22:59

Outline (.OLN)

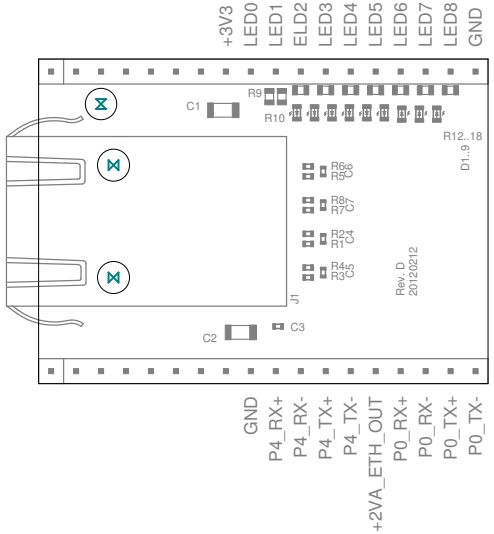
Rev. D

DRILL CHART: TOP TO BOTTOM

LAYER-STACK

01-20

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	61	YES
×	2	35	0.89	16	YES
◳	3	40	1.02	36	YES
◈	4	63	1.60	4	YES
⧖	5	126	3.20	1	NOT
⋈	6	128	3.25	2	NOT



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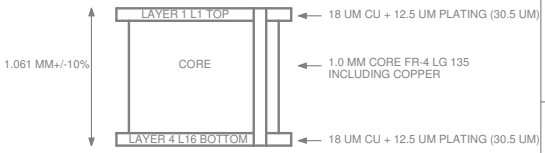

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DOMINO
WIFI 4 THINGS

Domino Dual Ethernet

12/02/15 22:59

Pinout (.PIN)

Rev. D

Domino Dual Ethernet Rev. D

Item	Qty	Value	Manufacturer	Device	Package	Reference	Description	Remarks
1	2	2n2	ANY	C1210_2n2_X7R_10%_CER_2kV	C1206	C1, C2	CAP CER 2200PF 1KV 10% X7R 1210	
2	5	100n	ANY	C0402_100n_X7R_10%_CER_50V	C0402	C3, C4, C5, C6, C7	CAP CER 0.1UF 50V 10% X7R 0402	
3	1	BLUE	ANY	LED0603-BLUE	LED0603	D1	LED BLUE CLEAR 0603 SMD	
4	1	WHITE	ANY	LED0603-WHITE	LED0603	D2	LED WHITE CLEAR 0603 SMD	
5	4	GREEN	ANY	LED0603-GREEN	LED0603	D3, D4, D5, D6	LED GREEN CLEAR 0603 SMD	
6	1	RED	ANY	LED0603-ORANGE	LED0603	D7	LED ORANGE CLEAR 0603 SMD	
7	1	ORANGE	ANY	LED0603-ORANGE	LED0603	D8	LED ORANGE CLEAR 0603 SMD	
8	1	YELLOW	ANY	LED0603-YELLOW	LED0603	D9	LED YELLOW CLEAR 0603 SMD	
9	1	HBJ-2H101NLF	SHEZHEN HUILY ELECTRONICS	HBJ-2H101NLF	HBJ-2H101NLF	J1	CONN MAGJACK 2PORT 100 BASE-T	
10	2	MH18-1	ANY	MH18-1-0.1	MH18-1-0.1	J2, J3	CONN HEADER VERT .100 1ROW 18POS 8.08 HEAD 3.05 TAIL 15AU	
11	8	49R9	ANY	R0402_49R9_1%_62.5mW	R0402	R1, R2, R3, R4, R5, R6, R7, R8	RES 49.9 OHM 1/16W 1% 0402 SMD	
12	3	330R	ANY	R0603_330R_5%_125mW	R0603	R15, R16, R17	RES 330 OHM 1/8W 5% 0603 SMD	
13	6	270R	ANY	R0603_270R_5%_125mW	R0603	R9, R10, R11, R12, R13, R14	RES 270 OHM 1/8W 5% 0603 SMD	