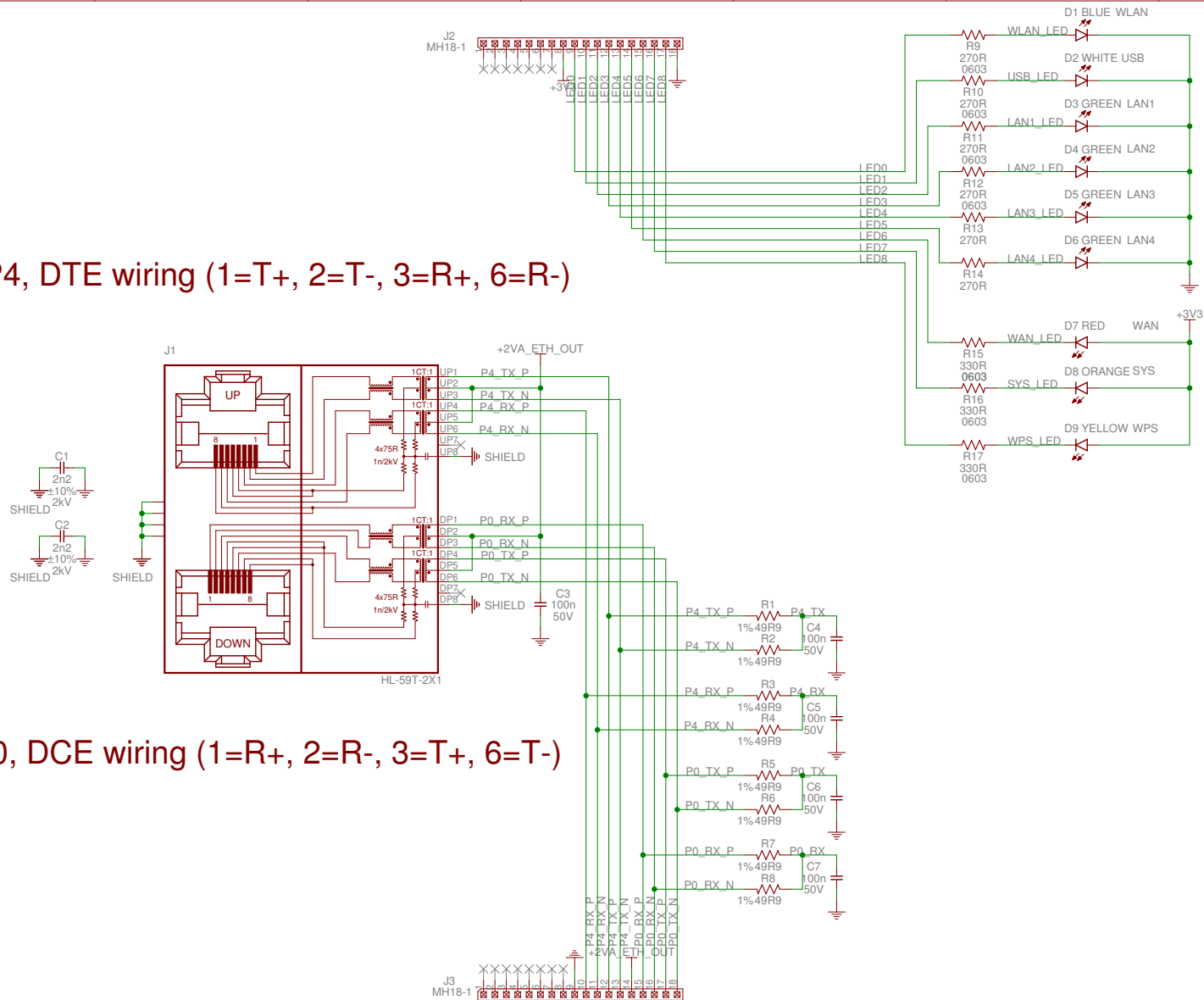
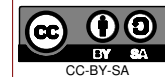


WAN on port P4, DTE wiring (1=T+, 2=T-, 3=R+, 6=R-)

LAN on port P0, DCE wiring (1=R+, 2=R-, 3=T+, 6=T-)



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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**Domino Dual Ethernet**  
21/08/14 23:27  
Sheet: 1 / 1  
Rev.B



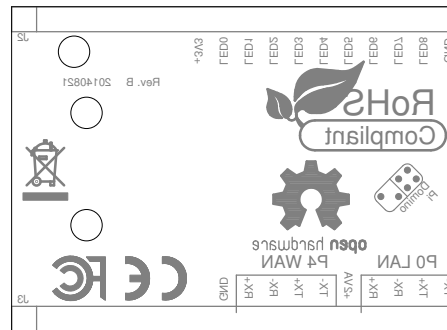




### DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	61	YES
×	2	35	0.90	16	YES
□	3	40	1.02	36	YES
◇	4	63	1.60	4	YES
⊠	5	126	3.20	3	NOT

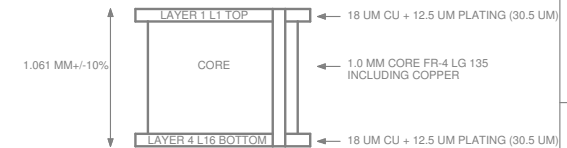
LAYER-STACK



LINE WIDTH IMPEDANCE CHART FOR REFERENCE

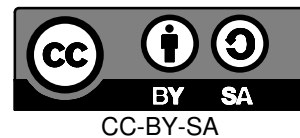
Class	Ethernet	Type	Diff Coated Coplanar Waveguide With Ground 1B	
Layer	Impedance	Trace Width	Trace Separation	Ground Separation
TOP, BOTTOM	100 Ohms	10 mils	6 mils	6 mils

## STACK-UP FOR REFERENCE



NOTES:

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



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Domino Dual Ethernet

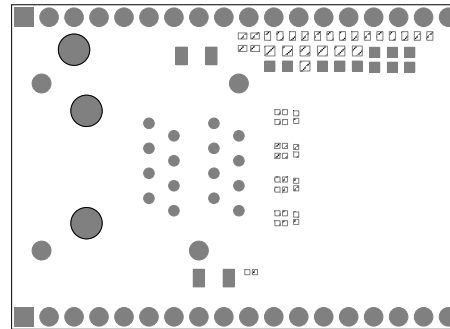
21/08/14 23:27

Silk screen SOL (.PLS)

Rev. B

### DRILL CHART: TOP TO BOTTOM

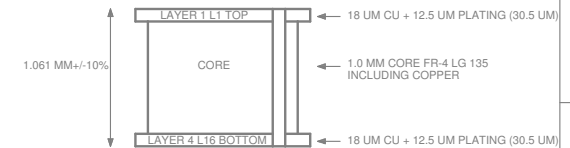
Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	61	YES
×	2	35	0.90	16	YES
□	3	40	1.02	36	YES
◇	4	63	1.60	4	YES
⊠	5	126	3.20	3	NOT



LINE WIDTH IMPEDANCE CHART FOR REFERENCE

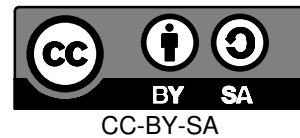
Class	Ethernet	Type	Diff Coated Coplanar Waveguide With Ground 1B	
Layer	Impedance	Trace Width	Trace Separation	Ground Separation
TOP, BOTTOM	100 Ohms	10 mils	6 mils	6 mils

## STACK-UP FOR REFERENCE



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



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Solder stop mask CMP (.STC)

Rev. B

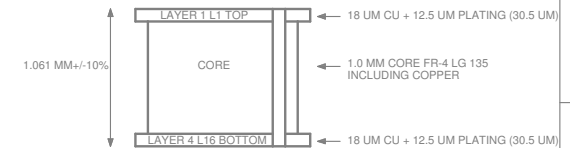
### DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	61	YES
×	2	35	0.90	16	YES
◇	3	40	1.02	36	YES
◊	4	63	1.60	4	YES
⊗	5	126	3.20	3	NOT

LINE WIDTH IMPEDANCE CHART FOR REFERENCE

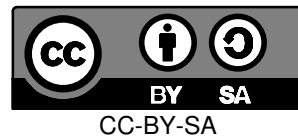
Class	Ethernet	Type	Diff Coated Coplanar Waveguide With Ground 1B	
Layer	Impedance	Trace Width	Trace Separation	Ground Separation
TOP, BOTTOM	100 Ohms	10 mils	6 mils	6 mils

## STACK-UP FOR REFERENCE



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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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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Solder stop mask SOL (.STS)

Rev. B





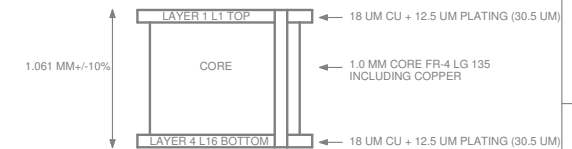
DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	61	YES
×	2	35	0.90	16	YES
□	3	40	1.02	36	YES
◇	4	63	1.60	4	YES
⊠	5	126	3.20	3	NOT

LINE WIDTH IMPEDANCE CHART FOR REFERENCE

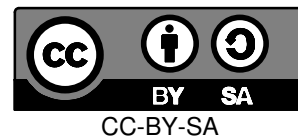
Class	Ethernet	Type	Diff Coated Coplanar Waveguide With Ground 1B	
Layer	Impedance	Trace Width	Trace Separation	Ground Separation
TOP, BOTTOM	100 Ohms	10 mils	6 mils	6 mils

## STACK-UP FOR REFERENCE



NOTES:

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
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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 FIL SR1100 OR SR1010 EPOXY.  
EQUIVALENT WET OR DRY FIL 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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Options Cream frame SOL (.CRS)

Rev. B

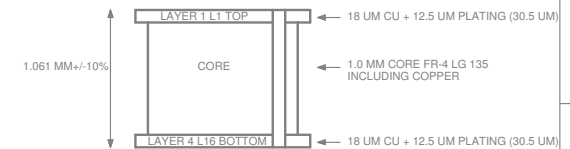
DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	61	YES
×	2	35	0.90	16	YES
□	3	40	1.02	36	YES
◇	4	63	1.60	4	YES
⊠	5	126	3.20	3	NOT

LINE WIDTH IMPEDANCE CHART FOR REFERENCE

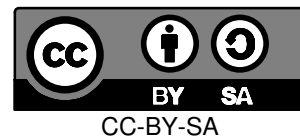
Class	Ethernet	Type	Diff Coated Coplanar Waveguide With Ground 1B	
Layer	Impedance	Trace Width	Trace Separation	Ground Separation
TOP, BOTTOM	100 Ohms	10 mils	6 mils	6 mils

## STACK-UP FOR REFERENCE



NOTES:

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Drill data (.DRD)

Rev. B



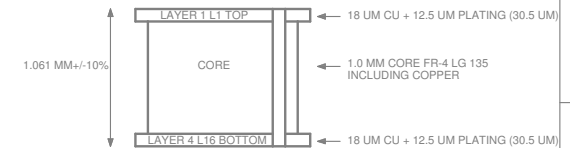
DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	61	YES
×	2	35	0.90	16	YES
□	3	40	1.02	36	YES
◇	4	63	1.60	4	YES
⊠	5	126	3.20	3	NOT

LINE WIDTH IMPEDANCE CHART FOR REFERENCE

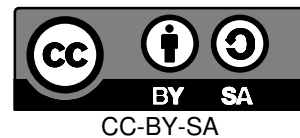
Class	Ethernet	Type	Diff Coated Coplanar Waveguide With Ground 1B	
Layer	Impedance	Trace Width	Trace Separation	Ground Separation
TOP, BOTTOM	100 Ohms	10 mils	6 mils	6 mils

## STACK-UP FOR REFERENCE



NOTES:

1. PRINTED CIRCUIT BOARD MADE FROM NEMA GRADE FR-4 TQ 135 EPOXY LAMINATE WITH 18 UM COPPER PLATING AND 1 MM THICKNESS.
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Component Assembly SOL (.ASS)

Rev. B





# Domino Dual Ethernet Rev. B

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	HL-59T-2X1	HENGLIAN ELECTRONIC	HL-59T-2X1	HL-59T-2X1	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	