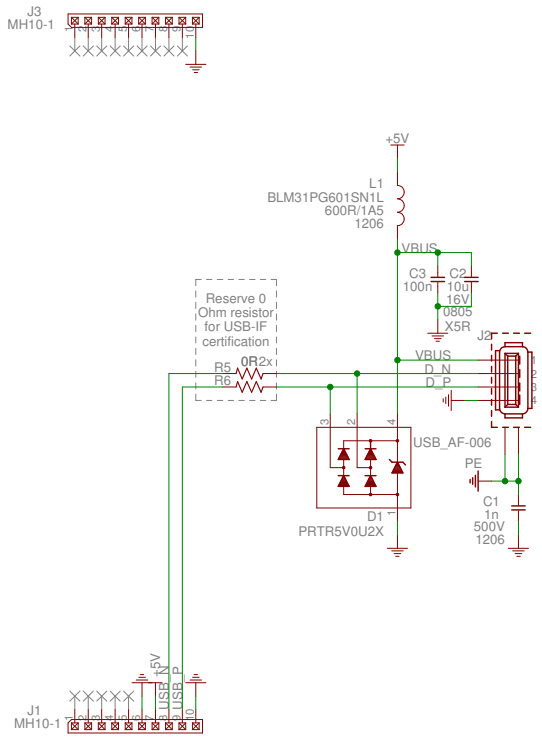


Resistors are 5% 1/16W 0402 unless otherwise specified
Ceramic capacitors are ±10% 50V X7R dielectric 0402 unless otherwise specified

DOMINO
WIFI 4 THINGS

Licensed under a Creative Commons
Attribution-Share-Alike Unported License.
See creativecommons.org/licenses/by-sa/4.0/

CC-BY-SA

Reference designs are provided "AS IS" and "WITH ALL FAULTS". Global Marine Networks disclaims all other warranties express or implied, regarding this product, including but not limited to, any implied warranties of merchantibility or fitness for any particular application.

The Domino Team may make changes to specifications and product descriptions at any time, without notice.

© 2014, The Domino Team
All rights reserved.

Domino Single USB

31/12/14 12:23

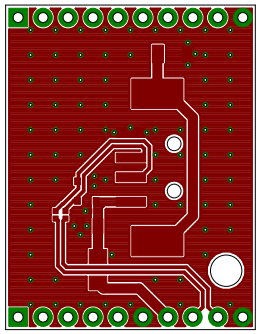
Sheet: 1/1

Rev.C

DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	83	YES
×	2	40	1.02	20	YES
◰	3	55	1.40	2	NOT
◇	4	126	3.20	1	NOT

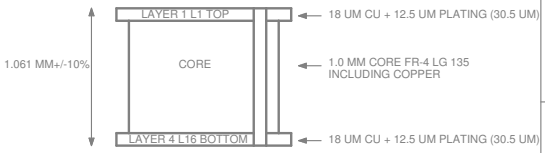
LAYER-STACK



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:

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

Licensed under a Creative Commons Attribution-Share-Alike Unported License.
See creativecommons.org/licenses/by-sa/4.0/

Reference designs are provided "AS IS" and "WITH ALL FAULTS". The Domino Team disclaims all other warranties express or implied, regarding this product, including but not limited to, any implied warranties of merchantibility or fitness for any particular application.

The Domino Team may make changes to specifications and product descriptions at any time, without notice.

© 2014, The Domino Team.
All rights reserved.

Domino Single USB

31/12/14 12:26

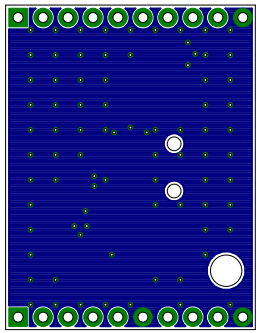
Component Side (.CMP)

Rev. C

LAYER-STACK

DRILL CHART: TOP TO BOTTOM

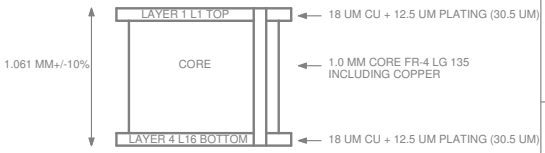
Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	83	YES
×	2	40	1.02	20	YES
◰	3	55	1.40	2	NOT
◇	4	126	3.20	1	NOT



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.
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

Licensed under a Creative Commons Attribution-Share-Alike Unported License.
See creativecommons.org/licenses/by-sa/4.0/

Reference designs are provided "AS IS" and "WITH ALL FAULTS". The Domino Team disclaims all other warranties express or implied, regarding this product, including but not limited to, any implied warranties of merchantibility or fitness for any particular application.

The Domino Team may make changes to specifications and product descriptions at any time, without notice.

© 2014, The Domino Team.
All rights reserved.

Domino Single USB

31/12/14 12:26

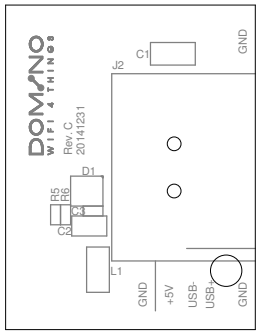
Solder side (.SOL)

Rev. C

LAYER-STACK

DRILL CHART: TOP TO BOTTOM

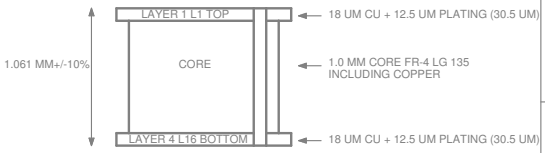
Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	83	YES
×	2	40	1.02	20	YES
◰	3	55	1.40	2	NOT
◇	4	126	3.20	1	NOT



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.
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

Licensed under a Creative Commons Attribution-Share-Alike Unported License.
See creativecommons.org/licenses/by-sa/4.0/

Reference designs are provided "AS IS" and "WITH ALL FAULTS". The Domino Team disclaims all other warranties express or implied, regarding this product, including but not limited to, any implied warranties of merchantibility or fitness for any particular application.

The Domino Team may make changes to specifications and product descriptions at any time, without notice.

© 2014, The Domino Team.
All rights reserved.

Domino Single USB

31/12/14 12:26

Silk screen CMP (.PLC)

Rev. C

LAYER-STACK

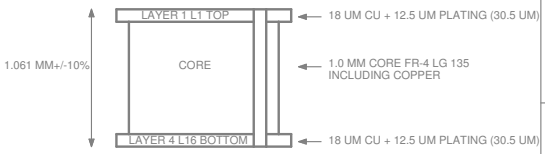
DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	83	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.
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

Licensed under a Creative Commons Attribution-Share-Alike Unported License.
See creativecommons.org/licenses/by-sa/4.0/

Reference designs are provided "AS IS" and "WITH ALL FAULTS". The Domino Team disclaims all other warranties express or implied, regarding this product, including but not limited to, any implied warranties of merchantibility or fitness for any particular application.

The Domino Team may make changes to specifications and product descriptions at any time, without notice.

© 2014, The Domino Team.
All rights reserved.

Domino Single USB

31/12/14 12:26

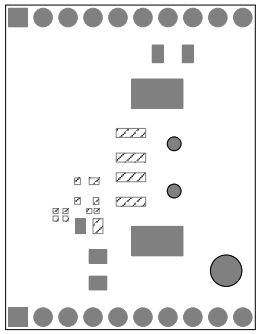
Silk screen SOL (.PLS)

Rev. C

DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	83	YES
×	2	40	1.02	20	YES
◰	3	55	1.40	2	NOT
◇	4	126	3.20	1	NOT

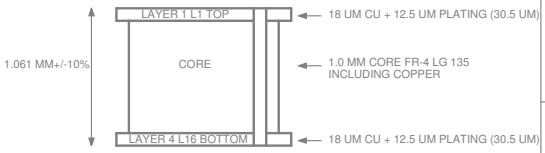
LAYER-STACK



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:

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

Licensed under a Creative Commons Attribution-Share-Alike Unported License.
See creativecommons.org/licenses/by-sa/4.0/

Reference designs are provided "AS IS" and "WITH ALL FAULTS". The Domino Team disclaims all other warranties express or implied, regarding this product, including but not limited to, any implied warranties of merchantibility or fitness for any particular application.

The Domino Team may make changes to specifications and product descriptions at any time, without notice.

© 2014, The Domino Team.
All rights reserved.

Domino Single USB

31/12/14 12:26

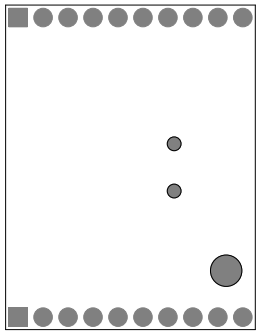
Solder stop mask CMP (.STC)

Rev. C

LAYER-STACK

DRILL CHART: TOP TO BOTTOM

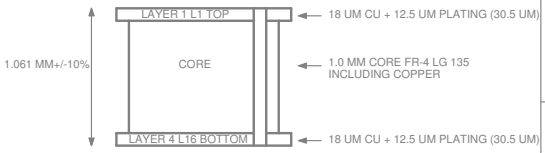
Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	83	YES
×	2	40	1.02	20	YES
◰	3	55	1.40	2	NOT
◇	4	126	3.20	1	NOT



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.
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

Licensed under a Creative Commons Attribution-Share-Alike Unported License.
See creativecommons.org/licenses/by-sa/4.0/

Reference designs are provided "AS IS" and "WITH ALL FAULTS". The Domino Team disclaims all other warranties express or implied, regarding this product, including but not limited to, any implied warranties of merchantibility or fitness for any particular application.

The Domino Team may make changes to specifications and product descriptions at any time, without notice.

© 2014, The Domino Team.
All rights reserved.

Domino Single USB

31/12/14 12:26

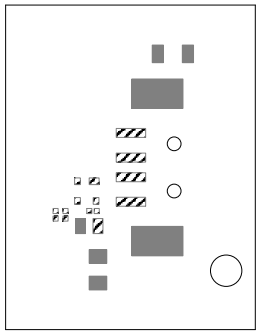
Solder stop mask SOL (.STS)

Rev. C

DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	83	YES
×	2	40	1.02	20	YES
◰	3	55	1.40	2	NOT
◈	4	126	3.20	1	NOT

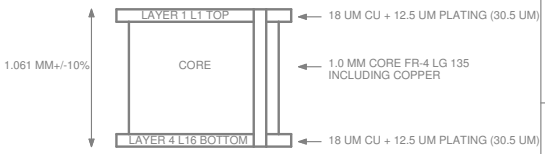
LAYER-STACK



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:

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

Licensed under a Creative Commons Attribution-Share-Alike Unported License.
See creativecommons.org/licenses/by-sa/4.0/

Reference designs are provided "AS IS" and "WITH ALL FAULTS". The Domino Team disclaims all other warranties express or implied, regarding this product, including but not limited to, any implied warranties of merchantibility or fitness for any particular application.

The Domino Team may make changes to specifications and product descriptions at any time, without notice.

© 2014, The Domino Team.
All rights reserved.

Domino Single USB

31/12/14 12:26

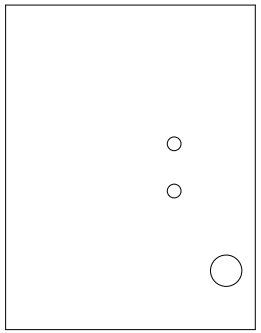
Cream frame CMP (.CRC)

Rev. C

LAYER-STACK

DRILL CHART: TOP TO BOTTOM

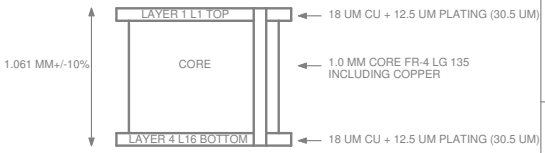
Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	83	YES
×	2	40	1.02	20	YES
◰	3	55	1.40	2	NOT
◇	4	126	3.20	1	NOT



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.
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

Licensed under a Creative Commons Attribution-Share-Alike Unported License.
See creativecommons.org/licenses/by-sa/4.0/

Reference designs are provided "AS IS" and "WITH ALL FAULTS". The Domino Team disclaims all other warranties express or implied, regarding this product, including but not limited to, any implied warranties of merchantibility or fitness for any particular application.

The Domino Team may make changes to specifications and product descriptions at any time, without notice.

© 2014, The Domino Team.
All rights reserved.

Domino Single USB

31/12/14 12:26

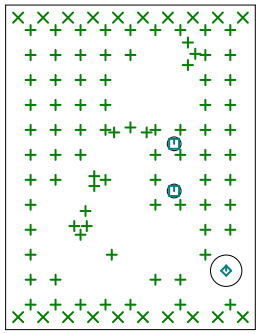
Cream frame SOL (.CRS)

Rev. C

DRILL CHART: TOP TO BOTTOM

LAYER-STACK
01-16
01-20

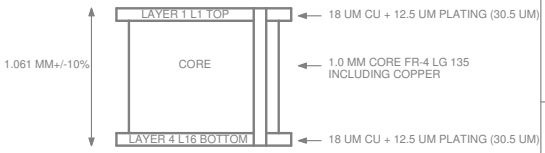
Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	83	YES
×	2	40	1.02	20	YES
◰	3	55	1.40	2	NOT
◈	4	126	3.20	1	NOT



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.
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

Licensed under a Creative Commons Attribution-Share-Alike Unported License.
See creativecommons.org/licenses/by-sa/4.0/

Reference designs are provided "AS IS" and "WITH ALL FAULTS". The Domino Team disclaims all other warranties express or implied, regarding this product, including but not limited to, any implied warranties of merchantibility or fitness for any particular application.

The Domino Team may make changes to specifications and product descriptions at any time, without notice.

© 2014, The Domino Team.
All rights reserved.

Domino Single USB

31/12/14 12:26

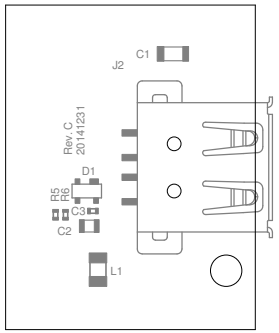
Drill data (.DRD)

Rev. C

LAYER-STACK

DRILL CHART: TOP TO BOTTOM

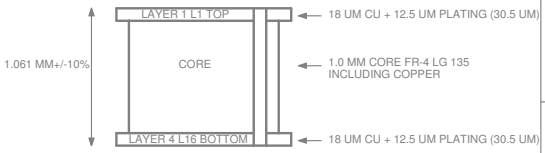
Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	83	YES
×	2	40	1.02	20	YES
◰	3	55	1.40	2	NOT
◈	4	126	3.20	1	NOT



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.
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

Licensed under a Creative Commons Attribution-Share-Alike Unported License.
See creativecommons.org/licenses/by-sa/4.0/

Reference designs are provided "AS IS" and "WITH ALL FAULTS". The Domino Team disclaims all other warranties express or implied, regarding this product, including but not limited to, any implied warranties of merchantibility or fitness for any particular application.

The Domino Team may make changes to specifications and product descriptions at any time, without notice.

© 2014, The Domino Team.
All rights reserved.

Domino Single USB

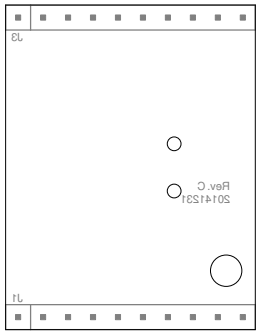
31/12/14 12:26

Component Assembly CMP (.ASC) | Rev. C

DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	83	YES
×	2	40	1.02	20	YES
◰	3	55	1.40	2	NOT
◈	4	126	3.20	1	NOT

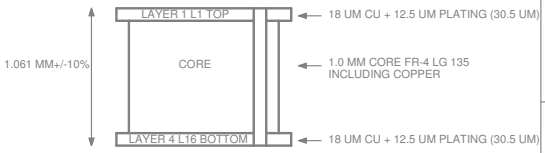
LAYER-STACK



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:

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

Licensed under a Creative Commons Attribution-Share-Alike Unported License.
See creativecommons.org/licenses/by-sa/4.0/

Reference designs are provided "AS IS" and "WITH ALL FAULTS". The Domino Team disclaims all other warranties express or implied, regarding this product, including but not limited to, any implied warranties of merchantibility or fitness for any particular application.

The Domino Team may make changes to specifications and product descriptions at any time, without notice.

© 2014, The Domino Team.
All rights reserved.

Domino Single USB

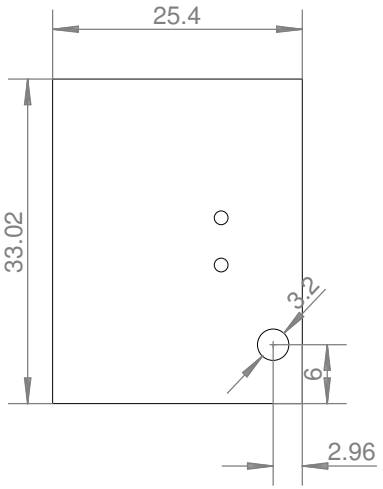
31/12/14 12:26

Component Assembly SOL (.ASS) | Rev. C

DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	83	YES
×	2	40	1.02	20	YES
◰	3	55	1.40	2	NOT
◈	4	126	3.20	1	NOT

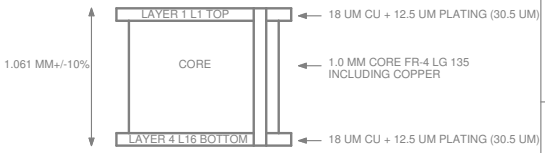
LAYER-STACK



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:

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

Licensed under a Creative Commons Attribution-Share-Alike Unported License.
See creativecommons.org/licenses/by-sa/4.0/

Reference designs are provided "AS IS" and "WITH ALL FAULTS". The Domino Team disclaims all other warranties express or implied, regarding this product, including but not limited to, any implied warranties of merchantibility or fitness for any particular application.

The Domino Team may make changes to specifications and product descriptions at any time, without notice.

© 2014, The Domino Team.
All rights reserved.

Domino Single USB

31/12/14 12:26

Outline (.OLN)

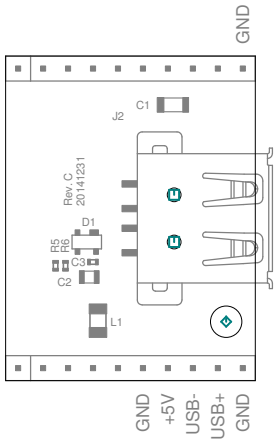
Rev. C

DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	83	YES
×	2	40	1.02	20	YES
◫	3	55	1.40	2	NOT
◈	4	126	3.20	1	NOT

LAYER-STACK

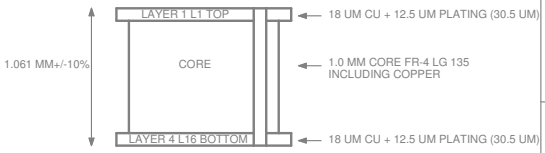
01-20



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.
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

Licensed under a Creative Commons Attribution-Share-Alike Unported License.
See creativecommons.org/licenses/by-sa/4.0/

Reference designs are provided "AS IS" and "WITH ALL FAULTS". The Domino Team disclaims all other warranties express or implied, regarding this product, including but not limited to, any implied warranties of merchantibility or fitness for any particular application.

The Domino Team may make changes to specifications and product descriptions at any time, without notice.

© 2014, The Domino Team.
All rights reserved.

Domino Single USB

31/12/14 12:26

Pinout (.PIN)

Rev. C

Domino Single USB Rev. C

Item	Qty	Value	Manufacturer	Device	Package	Reference	Description	Remarks
1	1	1n	ANY	C1206_1n_X7R_10%_CER_500V	C1206	C1	CAP CER 1000PF 500V 10% X7R 1206	
2	1	10u	ANY	C0805_10u_X5R_10%_CER_16V	C0805	C2	CAP CER 10UF 16V 10% X5R 0805	
3	1	100n	ANY	C0402_100n_X7R_10%_CER_50V	C0402	C3	CAP CER 0.1UF 50V 10% X7R 0402	
4	1	PRTR5V0U2X	NXP	PRTR5V0U2X	SOT143B	D1	TVS DIODE ARRAY 2CH 5V SOT143	
5	2	MH10-1	ANY	MH10-1-0.1	MH10-1-0.1	J1, J3	CONN HEADER VERT .100 1ROW 10POS 8.08 HEAD 3.05 TAIL 15AU	
6	1	USB_AF-006	SZJUSTWELL ELECTRONICS	USB_AF-006	USB_AF-006	J2	CONN USB A RECPT SMT R/A VERT	
7	1	BLM31PG601SN1L	MURATA	BLM31PG601SN1L	FB1206	L1	FERRITE CHIP 600 OHM 1500MA 1206	
8	2	0R	ANY	R0402_0R_5%_62.5mW	R0402	R5, R6	RES 0.0 OHM 1/16W JUMP 0402 SMD	