

1234

A

LAYER-STACK

DRILL CHART: TOP TO BOTTOM

Sym	N°	Mils	MM	Qty	Plated
+	1	12	0.30	186	YES
×	2	20	0.50	2	YES
□	3	31	0.80	7	YES
◇	4	40	1.02	42	YES
⊗	5	63	1.60	2	NOT
⊠	6	102	2.60	2	NOT
⊕	7	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

1.061 MM±/10%

LAYER 1 LT TOP

CORE

LAYER 4 LT6 BOTTOM

← 18 UM CU + 12.5 UM PLATING (30.5 UM)

← 1.0 MM CORE FR-4 LG 135 INCLUDING COPPER

← 18 UM CU + 12.5 UM PLATING (30.5 UM)

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

B

20K*

20K

+2V

GND

20K

20M

GND

See creativecommons.org/licenses/by-sa/4.0/
Attribution-Share-Alike Unported License
Licensed under a Creative Commons
Attribution-Share-Alike Unported License
c 2014-2015, The Domino Team
All rights reserved

RoHS

Compliance

20K

20M

GND

20K

20M

GND

20K*

20K

+2V

GND

20K

20M

GND

See creativecommons.org/licenses/by-sa/4.0/
Attribution-Share-Alike Unported License
Licensed under a Creative Commons
Attribution-Share-Alike Unported License
c 2014-2015, The Domino Team
All rights reserved

RoHS

Compliance

20K

20M

GND

20K

20M

GND

20K*

20K

+2V

GND

20K

20M

GND

See creativecommons.org/licenses/by-sa/4.0/
Attribution-Share-Alike Unported License
Licensed under a Creative Commons
Attribution-Share-Alike Unported License
c 2014-2015, The Domino Team
All rights reserved

RoHS

Compliance

20K

20M

GND

20K

20M

GND

C

DOMINO

WIFI 4 THINGS

CC

BY

SA

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 merchantability or fitness for any particular application.

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

© 2014-2015, The Domino Team. All rights reserved.

Domino I2S

09/02/15 22:00

Silk screen SOL (.PLS)

Rev. A

1234

D