

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 |
| TOP, BOTTOM | 90 Ohms | 14.5 mils | 6 mils |

STACK-UP FOR REFERENCE

1.061 MM +/- 10%

LAYER 1 L1 TOP

CORE

LAYER 4 L16 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

HP1

U5

C15

C14

FB1

FB7

C12

EC1

EC2

R17

R14

FB6

C8

R13

FB5

EC3

C7

R7

R9

C9

C13

R12

C16

FB2

U1

C10

C11

R8

R5

R6

FB3

R16

R15

R4

R3

C17

C18

J7

AUX_R

AUX_L

J1

J2

FB4

Rev. A

20150207

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

Component Assembly CMP (.ASC)

Rev. A

1234

D