

BOARD TITLE: PAINEL\_MEB

AUTHOR: CCB

CODE NUMBER:

REVISION: 1\_02

LAYER STACKUP:

TOP & BOTTOM: SIGNAL + GND PLANE

GENERAL NOTES:

1. LAMINATE SPECIFICATIONS:

- TOTAL THICKNESS: 1.6 mm +/- 0.2 mm

- LAYER NUMBERS: 2

- Cu THICKNESS (FINISHED):

1 oz / 1 oz

- RAW MATERIAL: FR-4

- TG MIN.: 150 °C

- TD MIN.: 310 °C

2. HOLE CHARACTERISTICS:

- PLATED HOLE TOLERANCE: +/- 0.1 mm

- NON PLATED HOLE TOLERANCE: +/- 0.1 mm

- DISPLACEMENT: 0.1 mm MAX.

- Cu THICKNESS ON HOLE: 20 um + SnPb MIN.

3. FINISHING:

- HOT AIR SOLDER LEVELING (HASL) - SnPb

REVISIONS DESCRIPTION:

1\_00 - Initial revision - Jun/4/2016

1\_01 - Rtcc + mac\_address chip, with cr2032 battery - Nov/16/2016

1\_02 - Smd bicolor leds for SpW channels,

lvds driver/receiver for sinc-out/sinc-in - Jun/2017

4. SILKSCREEN MASK:

- WHITE (THERMAL CURE EPOXY)

5. SOLDER MASK:

- BOTH SIDES

- GREEN EPOXY THERMAL CURE OR PHOTO IMAGEABLE

- IONIC CONTAMINATION AFTER SOLDERING: 14 ug NaCl / in2 MAX.

- COVER VIAS WITH SOLDER MASK ON BOTH SIDES

6. SPECIFIED STANDARDS:

- IPC-6011 CLASS 2 / IPC-6012 CLASS 2 / IPC-A-600 CLASS 2

7. ADDITIONAL NOTES:

- DIMENSIONAL TOLERANCE: +/- 0.2 mm

- ELECTRICAL TESTS ARE MANDATORY

- GERBER MODIFICATIONS ARE ONLY ALLOWED WITH EXPLICIT AUTHOR / RESPONSIBLE AUTHORIZATION

Grid of component footprints for components D2-D5, D6-D9, Q6-Q13, Q14-Q21, R14-R21, R22-R29, R30-R37, R38-R45.

Component footprint for R46, R47, R48, CN9, C6.

Component footprint for CN2, CN3, CN4, CN5, CN1.

Component footprint for R3, R4, R5, R6, R7.

Component footprint for R8, R9, R10, R11, R12, Q1, Q2, Q3, Q4, Q5.

Component footprint for U1, D1, R1, C1, C2, C3, X1, CN6, CR2032.

Component footprint for U2, C5, CN8, R49, R50, CN10.

Component footprint for FD3, FD2, FD1.

Component footprint for C8, C7, CN7.

PAINEL\_MEB - 1\_02 - 2017/JUN

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TMI

Mechanical drawing of the PCB showing dimensions 274mm x 41mm and mounting holes f x1, f x2, f x3, f x4.