

# PDCard-4242 Schematic Documentation

## PDNode-600 Baseboard

### PCB FABRICATION SPECIFICATION

#### BOARD PARAMETERS

Layers: 6  
 Board Size: 57.17 mm x 29.92 mm  
 PCB Thickness: 1.6 mm  
 Base Material: FR-4  
 Material Type: FR4 TG135  
 Stackup Code: JLC06161H-3313  
 Impedance Control: No requirement  
 Appearance Standard: IPC Class 2  
 Board Outline Tolerance: ±0.2 mm

#### COPPER & FINISH

Outer Copper Weight: 1 oz  
 Inner Copper Weight: 0.5 oz  
 Surface Finish: ENIG  
 Gold Thickness: 1 U"  
 Gold Fingers: YES  
 Beveling: Yes, 30°

#### SOLDER MASK & SILK

PCB Color: Green  
 Silkscreen Color: White  
 Via Covering: Epoxy Filled & Capped

#### DRILLING & SPECIAL PROCESSES

Min Via Hole: 0.2 mm  
 Via Pad / Finished Diameter: 0.4 mm  
 Castellated Holes: No  
 Edge Plating: No  
 Blind Slot: No  
 Press-Fit Hole: No  
 Countersink Hole: No  
 Backdrill: No

#### QUALITY & TEST

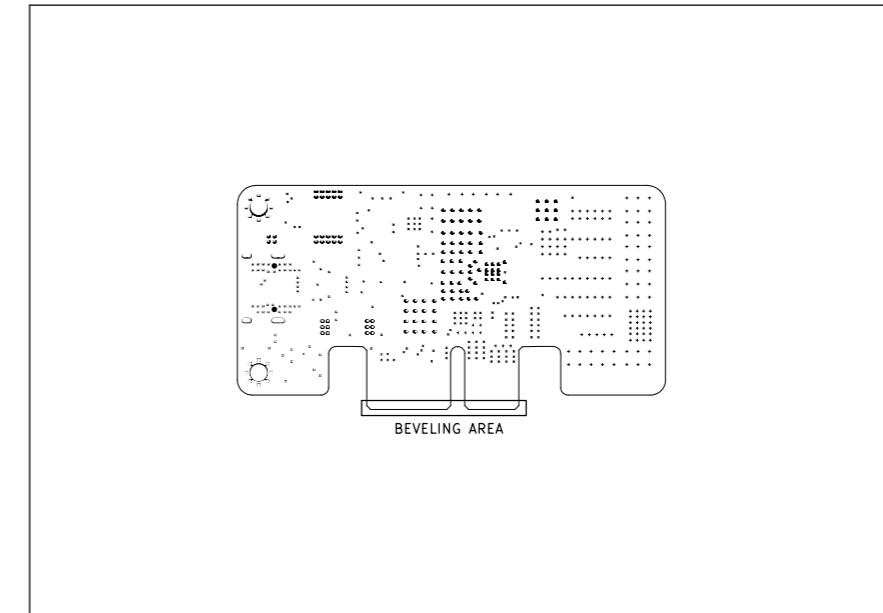
Electrical Test: Flying Probe Fully Test

#### LAYER STACKUP

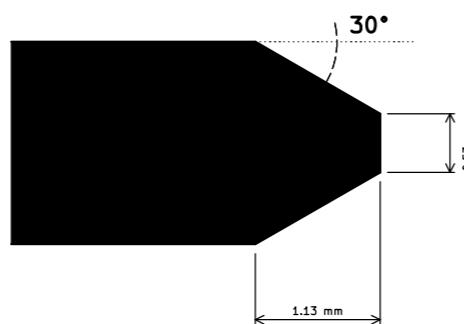
| Name         | Type        | Material                  | Thickness mm | Er   | LossTg |
|--------------|-------------|---------------------------|--------------|------|--------|
| F.Silkscreen | Top Silk    | Direct Printing White     | -            | -    | -      |
| F.Paste      | Paste       | -                         | -            | -    | -      |
| F.Mask       | Solder Mask | Solder Resist Green       | 0.01         | 3.8  | 0      |
| F.Cu         | Copper      | -                         | 0.035        | -    | -      |
| Dielectric 1 | Prepreg     | 3313 RC57% 4.2mil         | 0.0994       | 4.1  | 0.02   |
| In1.Cu       | Copper      | -                         | 0.0152       | -    | -      |
| Dielectric 2 | Core        | 0.55mm H/H without copper | 0.55         | 4.41 | 0.02   |
| In2.Cu       | Copper      | -                         | 0.0152       | -    | -      |
| Dielectric 3 | Prepreg     | 2116 RC54% 4.9mil         | 0.1888       | 4.16 | 0.02   |
| In3.Cu       | Copper      | -                         | 0.0152       | -    | -      |
| Dielectric 4 | Core        | 0.55mm H/H without copper | 0.55         | 4.41 | 0.02   |
| In4.Cu       | Copper      | -                         | 0.0152       | -    | -      |
| Dielectric 5 | Prepreg     | 3313 RC57% 4.2mil         | 0.0994       | 4.1  | 0.02   |
| B.Cu         | Copper      | -                         | 0.035        | -    | -      |
| B.Mask       | Solder Mask | Solder Resist Green       | 0.01         | 3.8  | 0      |
| B.Paste      | Paste       | -                         | -            | -    | -      |
| B.Silkscreen | Bottom Silk | Direct Printing White     | -            | -    | -      |

|    |           |
|----|-----------|
| 1  |           |
| 2  |           |
| 3  |           |
| 4  |           |
| 5  |           |
| 6  |           |
| 7  | PTH Drill |
| 8  |           |
| 9  |           |
| 10 |           |

### PCB AREA



### BEVELING



### PTH DRILLMAP

Drill Map:

- \* 0.200mm / 0.0079" (211 holes)
- 0.250mm / 0.0098" (124 holes)
- + 0.300mm / 0.0118" (157 holes)
- 0.400mm / 0.0157" (16 holes)
- ◊ 0.600mm / 0.0236" (0 holes + 4 slots)
- ☒ 2.200mm / 0.0866" (2 holes)

### NPTH DRILLMAP

Drill Map:

- ✗ 0.650mm / 0.0256" (2 holes) (not plated)

|              |  |                                     |
|--------------|--|-------------------------------------|
|              | Board Name:<br><b>PDNode-600</b>           | Project Name:<br><b>PDCard-4242</b> |
| Date:        | File Name:<br>PDNode-PDCard-4242.kicad_pcb |                                     |
| Sheet Title: | Company:                                   | Designer:<br>David Sipos            |
|              | Reviewer:                                  | Size: <b>A3</b>                     |
|              |  | Sheet: <b>1 of 1</b>                |