# QED Report

# Integr8tor

| Name | 9n67wpxk.zip | Id. | 2363 - QED With Image Data |
|---|---|---|---|
| Report Generated on | Mar 21, 2016 6:29:20 PM | Customer | InstantDFM |
| Board Id | | | |

## Single PCB View

| Top View | Bottom View |
|---|---|
|  |  |
| 3.8870 inch | 3.8870 inch |
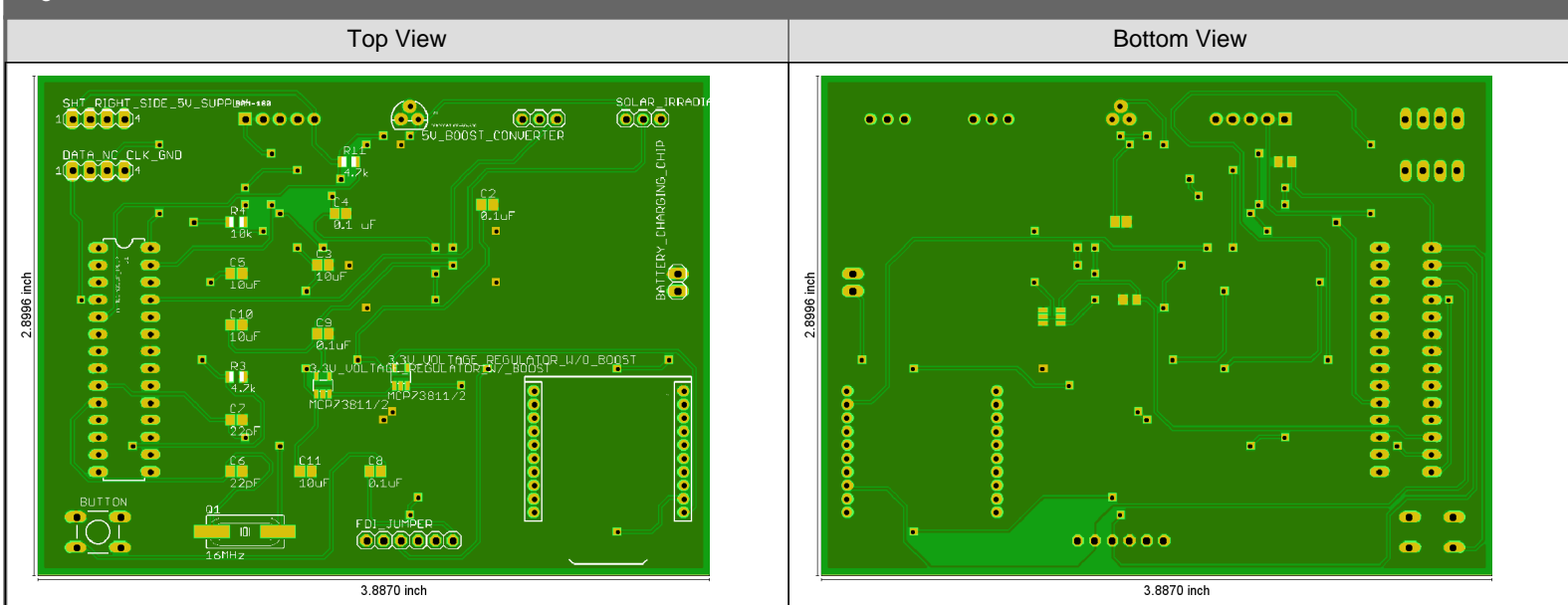
## Summary - General

| | | | |
|---|---|---|---|
| PCB Size | 3.8870 inch x 2.8996 inch | Copper Layers | 2 |
| PCB Thickness | 62.00 mil | Solder Mask | Both |
| Customer Panel Size | | Solder Mask Color | Green |
| SMD Pads Top | 38 | Legend | Top Only |
| SMD Pads Bottom | 12 | Legend Color | White |
| SMD Density Top | 3 SMD/inch$^2$ | Peeloff Mask | None |
| SMD Density Bottom | 1 SMD/inch$^2$ | Carbon Mask | None |
| Number of Nets | 56 | Drill Hole Density | 11 Holes/inch$^2$ |
| Electrical Test | Double Sided | Holes in SMD Pads | No |
| Max. Aspect Ratio on PTH | 2.6 | Edge Connectors | No |

## Summary - Copper Layers

| Layer Type | Min. Line Width | Min. Ring | Min. Clr. to Copper | Min. Clr. to Plated Hole | Min. Clr. to NPTH | Min. Clr. to Outline |
|---|---|---|---|---|---|---|
| | mil | mil | mil | mil | mil | mil |
| Outer | [6] 12.00 | [7] 8.00 | [8] 8.00 | [9] 16.00 | | [10] 40.00 |
| Inner | | | | | | |
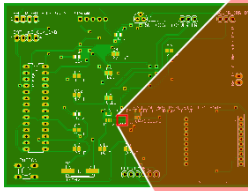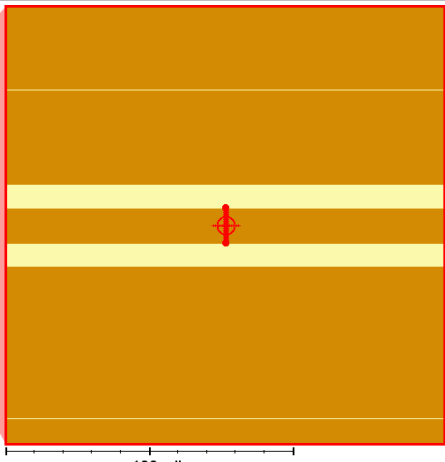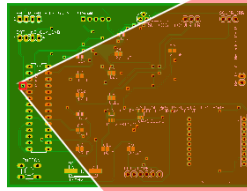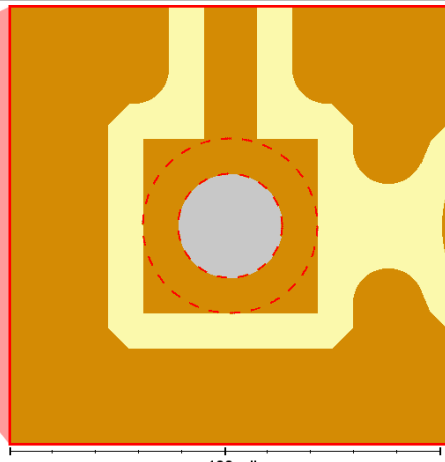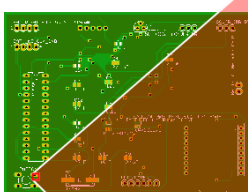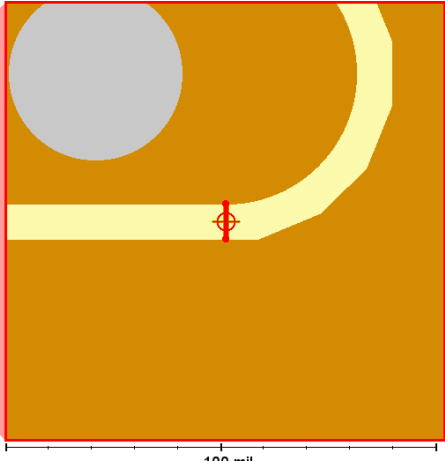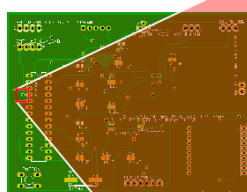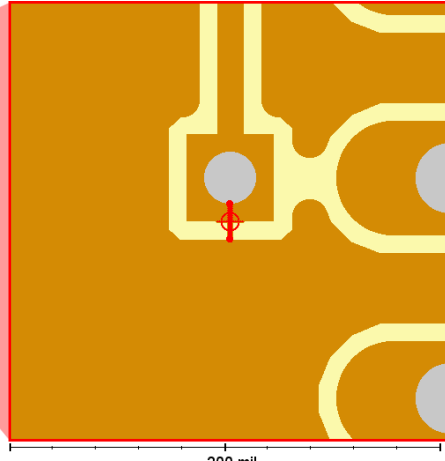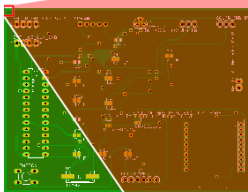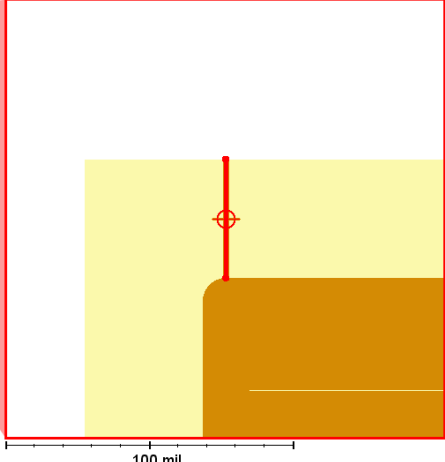
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### Summary - Sequences

| Type | Sequences | Tools | Min. End Dia. | Max. End Dia. | Holes | Min. Ring on Outer | Min. Ring on Inner | Min. Clr. Hole to Copper |
|---|---|---|---|---|---|---|---|---|
| | | | mil | mil | | mil | mil | mil |
| Blind | 0 | | | | | | | |
| Buried | 0 | | | | | | | |
| PTH | 1 | 5 | 23.62 | 40.00 | 127 | 8.00 | | 16.00 |
| Plated (Total) | 1 | 5 | 23.62 | 40.00 | 127 | 8.00 | | 16.00 |
| NPTH | 0 | | | | | | | |
| Total | 1 | 5 | 23.62 | 40.00 | 127 | 8.00 | | 16.00 |

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## Summary Minimum Design Characteristics - Locations

**6**

WF1_GTL

⊕ x: 1974.0 mil
y: 1166.82 mil

**Min. Line Width**
**Outer Layers**
**12.00 mil**

100 mil

**7**

WF1_GTL

⊕ x: 368.0 mil
y: 1718.0 mil

**Min. Ring**
**Outer Layers**
**8.00 mil**

100 mil

**8**

WF1_GTL

⊕ x: 625.64 mil
y: 422.9 mil

**Min. Clearance**
**Outer Layers**
**8.00 mil**

100 mil

**9**

WF1_GTL

⊕ x: 368.0 mil
y: 1698.19 mil

**Min. Clr. to Plated**
**Outer Layers**
**16.00 mil**

200 mil

**10**

WF1_GTL

⊕ x: 166.0 mil
y: 2997.61 mil

**Clr. to Outline**
**Outer Layers**
**40.00 mil**

100 mil

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## Stackup



WF1_GTL

WF1_GBL
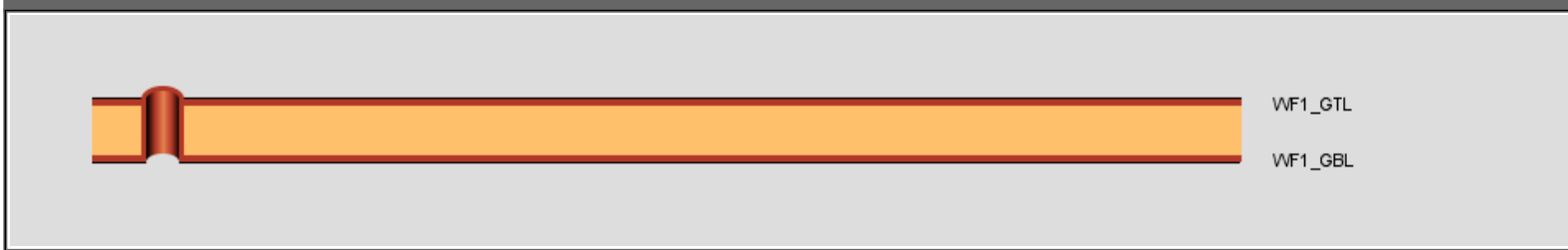
## Copper Layers

| File | Pos. | Min. Line Width | Min. Ring | Min. Clr. to Copper | Min. Same Net spacing | Min. Clr. to Plated Hole | Min. Clr. to NPTH | Min. Clr. to Outline | Copper Area | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | mil | mil | mil | mil | mil | mil | mil | inch$^2$ | % |
| WF1_GTL | 1 | 12.00 | 8.00 | 8.00 | 4.54 | 16.00 | | 40.00 | 9.8161 | 87 |
| WF1_GBL | 2 | 12.00 | 8.00 | 8.00 | 9.12 | 16.00 | | 40.00 | 9.6864 | 86 |

## Drill Tools

| File | Tool Nr. | Span | Type | Method | FilledVia | Countered | End Dia. | Holes (in PCB) | Moves (in PCB) | Double Hits (in File) | Predrill Hits (in File) | Min. Ring on Outer | Min. Ring on Inner | Min. Pad Size |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | mil | | | | | mil | mil | mil |
| WF1_TXT | 1 | 1-2 | PTH | unknown | unknown | unknown | 23.62 | 45 | 0 | 0 | 0 | 8.00 | | 39.62 |
| WF1_TXT | 2 | 1-2 | PTH | unknown | unknown | unknown | 31.50 | 20 | 0 | 0 | 0 | 14.25 | | 60.00 |
| WF1_TXT | 3 | 1-2 | PTH | unknown | unknown | unknown | 32.00 | 31 | 0 | 0 | 0 | 10.00 | | 52.00 |
| WF1_TXT | 4 | 1-2 | PTH | unknown | unknown | unknown | 39.37 | 9 | 0 | 0 | 0 | 10.00 | | 59.37 |
| WF1_TXT | 5 | 1-2 | PTH | unknown | unknown | unknown | 40.00 | 22 | 0 | 0 | 0 | 10.00 | | 60.00 |

## Sequences

| Span | Type | Tools | Min. End Dia. | Max. End Dia. | Holes | Min. Ring on Outer | Min. Ring on Inner | Min. Ring on Outer NPTH | Min. Ring on Inner NPTH | Min. Clr. Hole to Copper | Min. Clr. Hole to Outline | Min. Clr. Track to Outline |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | mil | mil | | mil | mil | mil | mil | mil | mil | mil |
| 1-2 | PTH | 5 | 23.62 | 40.00 | 127 | 8.00 | | | | 16.00 | 138.19 | disabled |
| All | Plated | 5 | 23.62 | 40.00 | 127 | 8.00 | | | | 16.00 | 138.19 | disabled |
| All | All | 5 | 23.62 | 40.00 | 127 | 8.00 | | | | 16.00 | 138.19 | disabled |

## Rout Tools

| File | Tool Nr. | Type | Tool Dia. | End Dia. | Draw Length | Nibble Count |
|---|---|---|---|---|---|---|
| | | | mil | mil | mil | |

## Routed Holes

| File | Hole Nr. | Instances | X Size | Y Size | Draw Length | Nibble Count |
|---|---|---|---|---|---|---|
| | | | mil | mil | mil | |

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## Solder Mask

| Side | Min. Positive Ring | Min. Ring on SM Defined Pads | Min. Clr. Mask to Mask | Min. Web | Min. Clr. Mask to Copper | Fully Covered Via Holes | Partly Covered Via Holes |
|---|---|---|---|---|---|---|---|
| | mil | mil | mil | mil | mil | | |
| Top | 4.00 | | 3.37 | 7.74 | 2.34 | No | No |
| Bottom | 4.00 | | 3.37 | 5.78 | 2.34 | No | No |

## Files

| Initial | Renamed | Format | Function | Position | Color |
|---|---|---|---|---|---|
| WF1.GTO | WF1_GTO | ger274x | silk | top | white |
| WF1.GTS | WF1_GTS | ger274x | mask | top | green |
| WF1.GTL | WF1_GTL | ger274x | outer | 1 | |
| WF1.GBL | WF1_GBL | ger274x | outer | 2 | |
| WF1.GBS | WF1_GBS | ger274x | mask | bottom | green |
| WF1.TXT | WF1_TXT | excellon2 | plated | 1-2 | |

## Input Remarks

Gerber import: Zero size aperture 10. 'WF1.GTL'

## Comments