

1 2 3 4

QL-EOS-S3 breakout Variant: [No Variations]

8/13/2020 RevA

# Release Candidate

Index Page Index Page Index Page COVER PAGE 11 **BLOCK DIAGRAM** 12 MICROCONTROLLER 13 23 24 25 15 26 16 17 18 28 19 29 20 30

#### DESIGN CONSIDERATIONS

DESIGN NOTE: Example text for informational design notes. DESIGN NOTE: Example text for critical design notes. DESIGN NOTE: Example text for cautionary design notes. LAYOUT NOTE: Example text for critical layout guidelines.

Title: \*

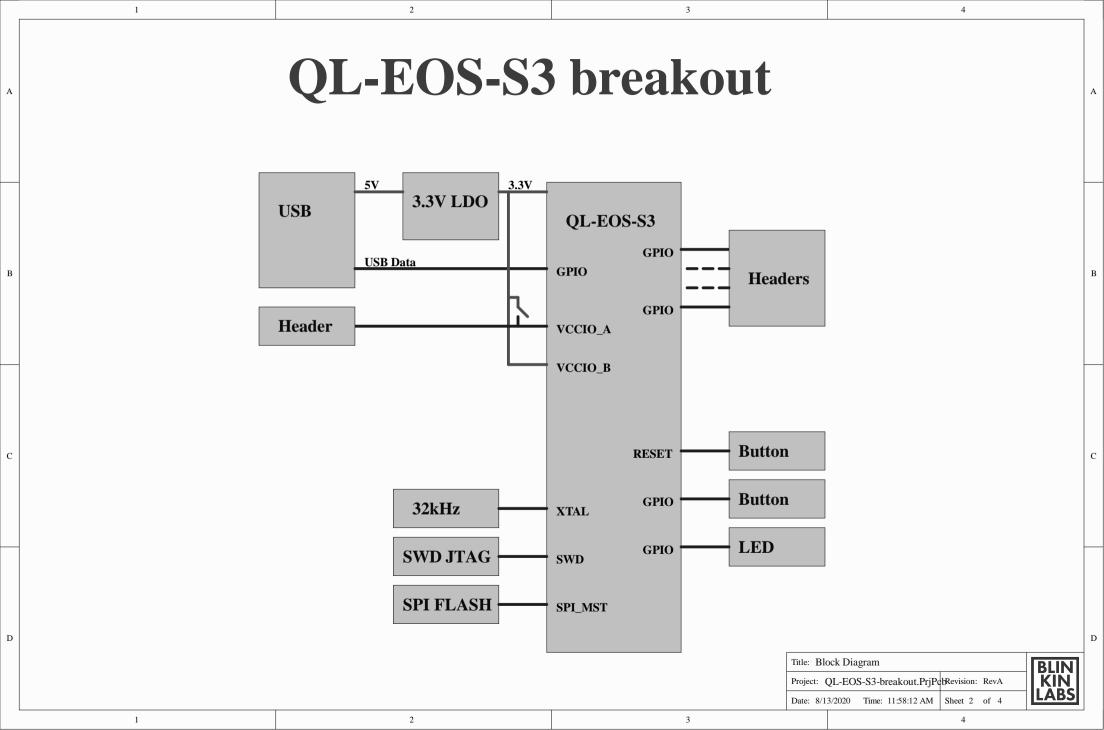
Project: QL-EOS-S3-breakout.PrjPctRevision: RevA

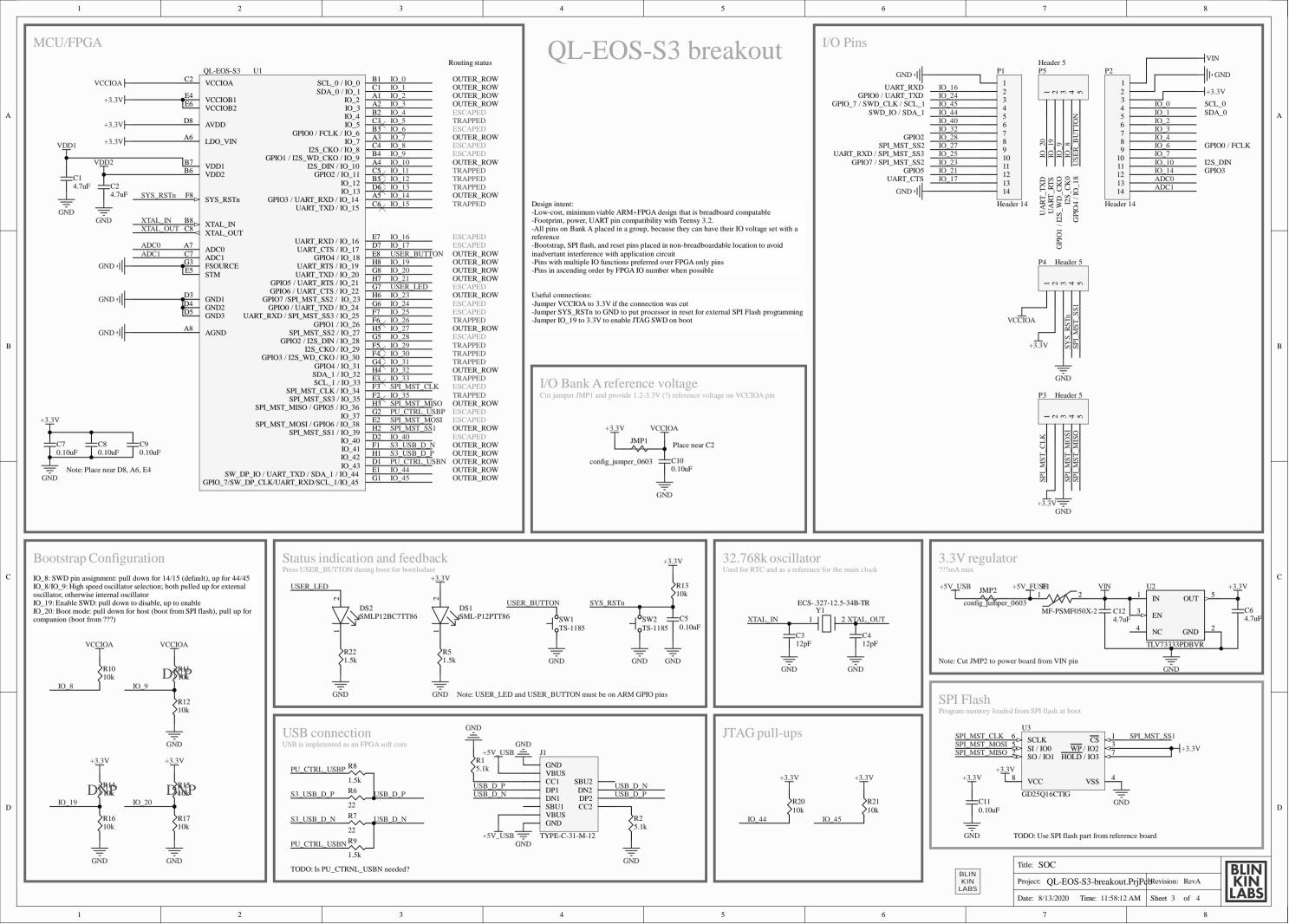
Date: 8/13/2020 Time: 11:58:12 AM Sheet 1 of 4

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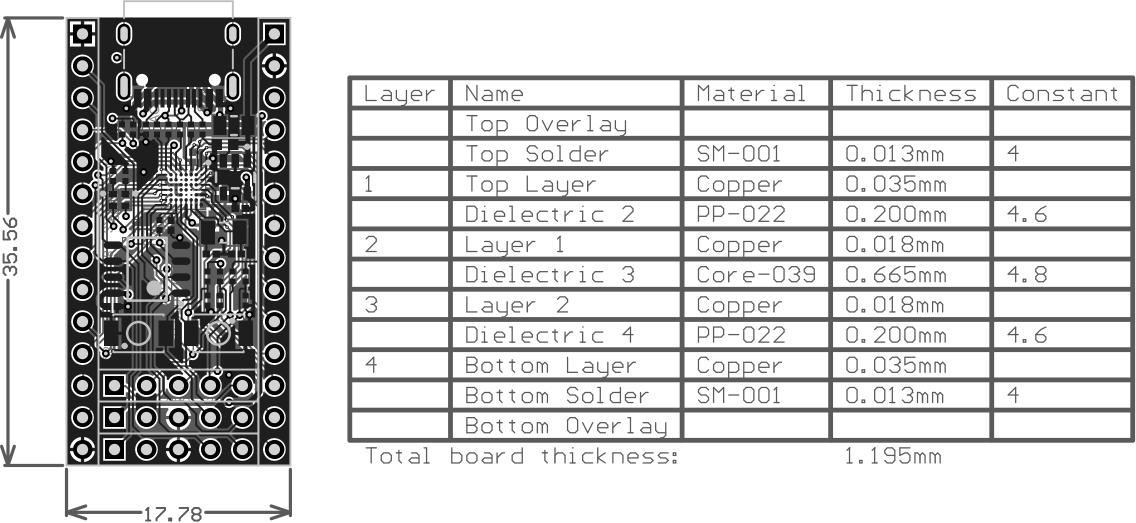


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### **Design Rules Verification Report**

Filename: C:\Users\matt\Blinkinlabs-Repos\QL-EOS-S3-breakout\pcb\QL-EOS-S3-breako

Warnings 0 Rule Violations 331

# Warnings Total

| Rule Violations   |     |  |
|---|-----|--|
| Clearance Constraint (Gap=0.152mm) (All),(All)  | 0   |  |
| Clearance Constraint (Gap=0.127mm) (istrack or ((ObjectKind = 'Via') And (AsMils(ViaDiameter) |     |  |
| Clearance Constraint (Gap=0.152mm) (InComponent('JMP1') or                                    |     |  |
| Short-Circuit Constraint (Allowed=No) (All),(All)   |     |  |
| Short-Circuit Constraint (Allowed=Yes) (InComponent('JMP1') or                                |     |  |
| Un-Routed Net Constraint ( (All) )  | 0   |  |
| Modified Polygon (Allow modified: No), (Allow shelved: No)                                    |     |  |
| Width Constraint (Min=0.152mm) (Max=0.406mm) (Preferred=0.254mm) (All)                        |     |  |
| Power Plane Connect Rule(Relief Connect )(Expansion=0.508mm) (Conductor Width=0.254mm)        |     |  |
| Hole Size Constraint (Min=0.025mm) (Max=2.54mm) (All)   |     |  |
| Hole To Hole Clearance (Gap=0.25mm) (All),(All)   | 0   |  |
| Minimum Solder Mask Sliver (Gap=0.254mm) (All),(All)  | 281 |  |
| Silk To Solder Mask (Clearance=0.254mm) (IsPad),(All)   |     |  |
| Silk to Silk (Clearance=0.254mm) (All),(All)  |     |  |
| Net Antennae (Tolerance=0mm) (All)  | 1   |  |
| Room [03] SOC (Bounding Region = (144.78mm, 45.72mm, 172.72mm, 86.36mm)                       |     |  |
| Height Constraint (Min=0mm) (Max=25.4mm) (Prefered=12.7mm) (All)                              |     |  |
| Total   | 331 |  |
|   |     |  |

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#### Minimum Solder Mask Sliver (Gap=0.254mm) (All),(All) Minimum Solder Mask Sliver Constraint: (0.017mm < 0.254mm) Between Pad C10-1(10mm,24.89mm) on Bottom Layer Anc Minimum Solder Mask Sliver Constraint: (0.017mm < 0.254mm) Between Pad C1-1(10.81mm,20mm) on Bottom Layer And Minimum Solder Mask Sliver Constraint: (0.178mm < 0.254mm) Between Pad C1-1(10.81mm,20mm) on Bottom Layer And Minimum Solder Mask Sliver Constraint: (0.177mm < 0.254mm) Between Pad C1-1(10.81mm,20mm) on Bottom Layer And Minimum Solder Mask Sliver Constraint: (0.017mm < 0.254mm) Between Pad C11-1(4.015mm,12.625mm) on Top Layer And Minimum Solder Mask Sliver Constraint: (0.177mm < 0.254mm) Between Pad C1-2(11.59mm,20mm) on Bottom Layer Anc Minimum Solder Mask Sliver Constraint: (0.178mm < 0.254mm) Between Pad C1-2(11.59mm,20mm) on Bottom Layer Anc Minimum Solder Mask Sliver Constraint: (0.229mm < 0.254mm) Between Pad C12-1(13.25mm,25.5mm) on Top Layer Anc Minimum Solder Mask Sliver Constraint: (0.223mm < 0.254mm) Between Pad C12-1(13.25mm,25.5mm) on Top Layer Anc Minimum Solder Mask Sliver Constraint: (0.228mm < 0.254mm) Between Pad C12-1(13.25mm,25.5mm) on Top Layer Anc Minimum Solder Mask Sliver Constraint: (0.223mm < 0.254mm) Between Pad C12-2(11.95mm,25.5mm) on Top Layer And Minimum Solder Mask Sliver Constraint: (0.223mm < 0.254mm) Between Pad C12-2(11.95mm,25.5mm) on Top Layer And Minimum Solder Mask Sliver Constraint: (0.017mm < 0.254mm) Between Pad C2-1(11.81mm,22.1mm) on Bottom Layer Anc Minimum Solder Mask Sliver Constraint: (0.178mm < 0.254mm) Between Pad C2-1(11.81mm,22.1mm) on Bottom Layer And Minimum Solder Mask Sliver Constraint: (0.177mm < 0.254mm) Between Pad C2-1(11.81mm,22.1mm) on Bottom Layer And Minimum Solder Mask Sliver Constraint: (0.177mm < 0.254mm) Between Pad C2-2(12.59mm,22.1mm) on Bottom Layer Anc Minimum Solder Mask Sliver Constraint: (0.178mm < 0.254mm) Between Pad C2-2(12.59mm,22.1mm) on Bottom Layer Anc Minimum Solder Mask Sliver Constraint: (0.017mm < 0.254mm) Between Pad C3-1(13.11mm,16.8mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.017mm < 0.254mm) Between Pad C4-1(11.89mm,16.8mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.017mm < 0.254mm) Between Pad C5-1(8.3mm,18.71mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad C5-1(8.3mm,18.71mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.227mm < 0.254mm) Between Pad C5-1(8.3mm,18.71mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.227mm < 0.254mm) Between Pad C5-2(8.3mm,19.49mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad C5-2(8.3mm,19.49mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.017mm < 0.254mm) Between Pad C6-1(14.19mm,20.4mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.017mm < 0.254mm) Between Pad C7-1(12.59mm,21.2mm) on Bottom Layer Anc Minimum Solder Mask Sliver Constraint: (0.017mm < 0.254mm) Between Pad C8-1(11.59mm,19.1mm) on Bottom Layer Anc Minimum Solder Mask Sliver Constraint: (0.017mm < 0.254mm) Between Pad C9-1(6.61mm,22.9mm) on Bottom Layer Anc Minimum Solder Mask Sliver Constraint: (0.14mm < 0.254mm) Between Pad J1-A1/B12(12.115mm,29.19mm) on Top Laye Minimum Solder Mask Sliver Constraint: (0.176mm < 0.254mm) Between Pad J1-A1/B12(12.115mm,29.19mm) on Top Laye Minimum Solder Mask Sliver Constraint: (0.14mm < 0.254mm) Between Pad J1-A12/B1(5.665mm,29.198mm) on Top Layer Minimum Solder Mask Sliver Constraint: (0.176mm < 0.254mm) Between Pad J1-A12/B1(5.665mm,29.198mm) on Top Layer Minimum Solder Mask Sliver Constraint: (0.203mm < 0.254mm) Between Pad J1-A4/B9(11.34mm,29.198mm) on Top Laye Minimum Solder Mask Sliver Constraint: (0.14mm < 0.254mm) Between Pad J1-A5(10.14mm,29.198mm) on Top Layer Anc Minimum Solder Mask Sliver Constraint: (0.14mm < 0.254mm) Between Pad J1-A5(10.14mm,29.198mm) on Top Layer Anc Minimum Solder Mask Sliver Constraint: (0.14mm < 0.254mm) Between Pad J1-A6(9.14mm,29.198mm) on Top Layer And Minimum Solder Mask Sliver Constraint: (0.14mm < 0.254mm) Between Pad J1-A6(9.14mm,29.198mm) on Top Layer Anc Minimum Solder Mask Sliver Constraint: (0.14mm < 0.254mm) Between Pad J1-A7(8.64mm,29.198mm) on Top Layer Anc Minimum Solder Mask Sliver Constraint: (0.14mm < 0.254mm) Between Pad J1-A8(7.64mm,29.198mm) on Top Layer And Minimum Solder Mask Sliver Constraint: (0.14mm < 0.254mm) Between Pad J1-A8(7.64mm,29.198mm) on Top Layer Anc Minimum Solder Mask Sliver Constraint: (0.203mm < 0.254mm) Between Pad J1-A9/B4(6.44mm,29.198mm) on Top Layer Minimum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad R10-1(13.2mm,15.4mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad R1-1(10.8mm,27.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.247mm < 0.254mm) Between Pad R1-1(10.8mm,27.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.147mm < 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Minimum Solder Mask Sliver (Gap=0.254mm) (All),(All) Minimum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad R20-1(4.4mm,27.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.247mm < 0.254mm) Between Pad R20-1(4.4mm,27.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.247mm < 0.254mm) Between Pad R20-2(4.4mm,26.3mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad R2-1(6.3mm,26.3mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.247mm < 0.254mm) Between Pad R2-1(6.3mm,26.3mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad R21-1(5.3mm,27.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.247mm < 0.254mm) Between Pad R2-2(6.3mm,27.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad R22-1(3.7mm,22.6mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad R5-1(4.7mm,23.4mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad R6-1(8.1mm,26.3mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.247mm < 0.254mm) Between Pad R6-1(8.1mm,26.3mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.247mm < 0.254mm) Between Pad R6-1(8.1mm,26.3mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.247mm < 0.254mm) Between Pad R6-2(8.1mm,27.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.247mm < 0.254mm) Between Pad R6-2(8.1mm,27.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad R7-1(9mm,26.3mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.247mm < 0.254mm) Between Pad R7-1(9mm,26.3mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.247mm < 0.254mm) Between Pad R7-2(9mm,27.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.147mm < 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0.254mm) Between Pad U1-C6(9.9mm,21.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-C6(9.9mm,21.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-C6(9.9mm,21.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-C6(9.9mm,21.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-C7(9.9mm,21.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-C7(9.9mm,21.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-C7(9.9mm,21.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-C7(9.9mm,21.1mm) on Top Layer And Pac

Minimum Solder Mask Sliver (Gap=0.254mm) (All),(All) Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-C8(9.9mm,20.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-C8(9.9mm,20.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-D1(9.5mm,23.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-D1(9.5mm,23.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-D1(9.5mm,23.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-D2(9.5mm,23.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-D2(9.5mm,23.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-D2(9.5mm,23.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-D2(9.5mm,23.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-D3(9.5mm,22.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-D3(9.5mm,22.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-D3(9.5mm,22.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-D3(9.5mm,22.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-D4(9.5mm,22.3mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-D4(9.5mm,22.3mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-D4(9.5mm,22.3mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-D4(9.5mm,22.3mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-D5(9.5mm,21.9mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-D5(9.5mm,21.9mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-D5(9.5mm,21.9mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-D5(9.5mm,21.9mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-D6(9.5mm,21.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-D6(9.5mm,21.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-D6(9.5mm,21.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-D6(9.5mm,21.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-D7(9.5mm,21.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-D7(9.5mm,21.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-D7(9.5mm,21.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-D7(9.5mm,21.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-D8(9.5mm,20.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-D8(9.5mm,20.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-E1(9.1mm,23.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-E1(9.1mm,23.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-E1(9.1mm,23.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-E2(9.1mm,23.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-E2(9.1mm,23.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-E2(9.1mm,23.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-E2(9.1mm,23.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-E3(9.1mm,22.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-E3(9.1mm,22.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-E3(9.1mm,22.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-E3(9.1mm,22.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-E4(9.1mm,22.3mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-E4(9.1mm,22.3mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-E4(9.1mm,22.3mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-E4(9.1mm,22.3mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-E5(9.1mm,21.9mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-E5(9.1mm,21.9mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-E5(9.1mm,21.9mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-E5(9.1mm,21.9mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-E6(9.1mm,21.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-E6(9.1mm,21.5mm) on Top Layer And Pac Minimum Solder Mask Sliver (Gap=0.254mm) (All),(All) Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-E6(9.1mm,21.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-E6(9.1mm,21.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-E7(9.1mm,21.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-E7(9.1mm,21.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-E7(9.1mm,21.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-E7(9.1mm,21.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-E8(9.1mm,20.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-E8(9.1mm,20.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-F1(8.7mm,23.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-F1(8.7mm,23.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-F1(8.7mm,23.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-F2(8.7mm,23.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-F2(8.7mm,23.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-F2(8.7mm,23.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-F2(8.7mm,23.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-F3(8.7mm, 22.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-F3(8.7mm, 22.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-F3(8.7mm, 22.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-F3(8.7mm,22.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-F4(8.7mm,22.3mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-F4(8.7mm, 22.3mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-F4(8.7mm,22.3mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-F4(8.7mm,22.3mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-F5(8.7mm,21.9mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-F5(8.7mm,21.9mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-F5(8.7mm,21.9mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-F5(8.7mm,21.9mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-F6(8.7mm,21.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-F6(8.7mm,21.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-F6(8.7mm,21.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-F6(8.7mm,21.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-F7(8.7mm,21.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-F7(8.7mm,21.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-F7(8.7mm,21.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-F7(8.7mm,21.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-F8(8.7mm, 20.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-F8(8.7mm, 20.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-G1(8.3mm,23.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-G1(8.3mm,23.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-G1(8.3mm,23.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-G2(8.3mm,23.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-G2(8.3mm,23.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-G2(8.3mm,23.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-G2(8.3mm,23.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-G3(8.3mm,22.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-G3(8.3mm,22.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-G3(8.3mm,22.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-G3(8.3mm,22.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-G4(8.3mm,22.3mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-G4(8.3mm,22.3mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-G4(8.3mm,22.3mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-G4(8.3mm,22.3mm) on Top Layer And Pac

#### Minimum Solder Mask Sliver (Gap=0.254mm) (All),(All) Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-G5(8.3mm,21.9mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-G5(8.3mm,21.9mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-G5(8.3mm,21.9mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-G5(8.3mm,21.9mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-G6(8.3mm,21.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-G6(8.3mm,21.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-G6(8.3mm,21.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-G6(8.3mm,21.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-G7(8.3mm,21.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-G7(8.3mm,21.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-G7(8.3mm,21.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-G7(8.3mm,21.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.212mm < 0.254mm) Between Pad U1-G8(8.3mm,20.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-G8(8.3mm,20.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-H1(7.9mm,23.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-H2(7.9mm,23.1mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-H3(7.9mm,22.7mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-H4(7.9mm,22.3mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-H5(7.9mm,21.9mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-H6(7.9mm,21.5mm) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad U1-H7(7.9mm,21.1mm) on Top Layer And Pac

Silk To Solder Mask (Clearance=0.254mm) (IsPad),(All) Silk To Solder Mask Clearance Constraint: (0.25mm < 0.254mm) Between Arc (13.165mm,11.5mm) on Top Overlay And Pa Silk To Solder Mask Clearance Constraint: (0.25mm < 0.254mm) Between Arc (2.9mm,21.6mm) on Top Overlay And Pau Silk To Solder Mask Clearance Constraint: (0.25mm < 0.254mm) Between Arc (4.615mm,9.5mm) on Top Overlay And Pac Silk To Solder Mask Clearance Constraint: (0.211mm < 0.254mm) Between Arc (5.461mm,21.603mm) on Top Overlay An Silk To Solder Mask Clearance Constraint: (0.225mm < 0.254mm) Between Pad C12-1(13.25mm,25.5mm) on Top Layer And Silk To Solder Mask Clearance Constraint: (0.242mm < 0.254mm) Between Pad C5-1(8.3mm,18.71mm) on Top Layer And Silk To Solder Mask Clearance Constraint: (0.242mm < 0.254mm) Between Pad C5-1(8.3mm,18.71mm) on Top Layer And Silk To Solder Mask Clearance Constraint: (0.233mm < 0.254mm) Between Pad P1-12(1.27mm,6.35mm) on Multi-Layer And Silk To Solder Mask Clearance Constraint: (0.233mm < 0.254mm) Between Pad P1-13(1.27mm,3.81mm) on Multi-Layer Anc Silk To Solder Mask Clearance Constraint: (0.234mm < 0.254mm) Between Pad P1-14(1.27mm,1.27mm) on Multi-Layer And Silk To Solder Mask Clearance Constraint: (0.219mm < 0.254mm) Between Pad P2-12(16.51mm,6.35mm) on Multi-Layer Anc Silk To Solder Mask Clearance Constraint: (0.215mm < 0.254mm) Between Pad P2-13(16.51mm,3.81mm) on Multi-Layer Anc Silk To Solder Mask Clearance Constraint: (0.211mm < 0.254mm) Between Pad P2-14(16.51mm,1.27mm) on Multi-Layer And Silk To Solder Mask Clearance Constraint: (0.2mm < 0.254mm) Between Pad P3-1(3.81mm,1.27mm) on Multi-Layer And Tex Silk To Solder Mask Clearance Constraint: (0.201mm < 0.254mm) Between Pad P3-1(3.81mm,1.27mm) on Multi-Layer Anc Silk To Solder Mask Clearance Constraint: (0.236mm < 0.254mm) Between Pad P3-2(6.35mm,1.27mm) on Multi-Layer Anc Silk To Solder Mask Clearance Constraint: (0.237mm < 0.254mm) Between Pad P3-3(8.89mm,1.27mm) on Multi-Layer Anc Silk To Solder Mask Clearance Constraint: (0.249mm < 0.254mm) Between Pad P3-4(11.43mm,1.27mm) on Multi-Layer And Silk To Solder Mask Clearance Constraint: (0.236mm < 0.254mm) Between Pad P3-5(13.97mm,1.27mm) on Multi-Layer And Silk To Solder Mask Clearance Constraint: (0.249mm < 0.254mm) Between Pad P3-5(13.97mm,1.27mm) on Multi-Layer And Silk To Solder Mask Clearance Constraint: (0.2mm < 0.254mm) Between Pad P4-1(3.81mm, 3.81mm) on Multi-Layer And Tex Silk To Solder Mask Clearance Constraint: (0.201mm < 0.254mm) Between Pad P4-1(3.81mm, 3.81mm) on Multi-Layer Anc Silk To Solder Mask Clearance Constraint: (0.201mm < 0.254mm) Between Pad P4-1(3.81mm, 3.81mm) on Multi-Layer And Silk To Solder Mask Clearance Constraint: (0.22mm < 0.254mm) Between Pad P4-2(6.35mm,3.81mm) on Multi-Layer And Silk To Solder Mask Clearance Constraint: (0.236mm < 0.254mm) Between Pad P4-2(6.35mm,3.81mm) on Multi-Layer And Silk To Solder Mask Clearance Constraint: (0.246mm < 0.254mm) Between Pad P4-3(8.89mm,3.81mm) on Multi-Layer Anc Silk To Solder Mask Clearance Constraint: (0.237mm < 0.254mm) Between Pad P4-3(8.89mm,3.81mm) on Multi-Layer Anc Silk To Solder Mask Clearance Constraint: (0.249mm < 0.254mm) Between Pad P4-4(11.43mm,3.81mm) on Multi-Layer And Silk To Solder Mask Clearance Constraint: (0.25mm < 0.254mm) Between Pad P4-4(11.43mm,3.81mm) on Multi-Layer And Silk To Solder Mask Clearance Constraint: (0.237mm < 0.254mm) Between Pad P4-5(13.97mm,3.81mm) on Multi-Layer And Silk To Solder Mask Clearance Constraint: (0.239mm < 0.254mm) Between Pad P4-5(13.97mm,3.81mm) on Multi-Layer And Silk To Solder Mask Clearance Constraint: (0.234mm < 0.254mm) Between Pad P4-5(13.97mm,3.81mm) on Multi-Layer And Silk To Solder Mask Clearance Constraint: (0.205mm < 0.254mm) Between Pad P5-1(3.81mm,6.35mm) on Multi-Layer And Silk To Solder Mask Clearance Constraint: (0.2mm < 0.254mm) Between Pad P5-1(3.81mm,6.35mm) on Multi-Layer And Tex Silk To Solder Mask Clearance Constraint: (0.201mm < 0.254mm) Between Pad P5-1(3.81mm,6.35mm) on Multi-Layer Anc Silk To Solder Mask Clearance Constraint: (0.25mm < 0.254mm) Between Pad P5-2(6.35mm,6.35mm) on Multi-Layer And Silk To Solder Mask Clearance Constraint: (0.22mm < 0.254mm) Between Pad P5-2(6.35mm,6.35mm) on Multi-Layer And Silk To Solder Mask Clearance Constraint: (0.252mm < 0.254mm) Between Pad P5-3(8.89mm,6.35mm) on Multi-Layer Anc Silk To Solder Mask Clearance Constraint: (0.246mm < 0.254mm) Between Pad P5-3(8.89mm,6.35mm) on Multi-Layer And Silk To Solder Mask Clearance Constraint: (0.253mm < 0.254mm) Between Pad P5-4(11.43mm,6.35mm) on Multi-Layer And Silk To Solder Mask Clearance Constraint: (0.245mm < 0.254mm) Between Pad P5-4(11.43mm,6.35mm) on Multi-Layer And Silk To Solder Mask Clearance Constraint: (0.241mm < 0.254mm) Between Pad P5-5(13.97mm,6.35mm) on Multi-Layer And Silk To Solder Mask Clearance Constraint: (0.24mm < 0.254mm) Between Pad P5-5(13.97mm,6.35mm) on Multi-Layer And Silk To Solder Mask Clearance Constraint: (0.253mm < 0.254mm) Between Pad P5-5(13.97mm,6.35mm) on Multi-Layer And

#### Silk to Silk (Clearance=0.254mm) (All),(All)

Silk To Silk Clearance Constraint: (0.178mm < 0.254mm) Between Text "BLIN

KIN

LABS" (9.12mm,20.55mm) on Bottom Overlay And Track (6.12mm,17.55mm)(6.12mm,20.55mm) on E

#### Silk to Silk (Clearance=0.254mm) (All),(All)

Silk To Silk Clearance Constraint: (0.247mm < 0.254mm) Between Text "BLIN

KIN

LABS" (9.12mm,20.55mm) on Bottom Overlay And Track (6.12mm,17.55mm)(9.12mm,17.55mm) on E

#### Silk to Silk (Clearance=0.254mm) (All),(All)

Silk To Silk Clearance Constraint: (0.107mm < 0.254mm) Between Text "BLIN

KIN

LABS" (9.12mm,20.55mm) on Bottom Overlay And Track (6.12mm,20.55mm)(9.12mm,20.55mm) on E

#### Silk to Silk (Clearance=0.254mm) (All),(All)

Silk To Silk Clearance Constraint: (0.19mm < 0.254mm) Between Text "BLIN

KIN

LABS" (9.12mm,20.55mm) on Bottom Overlay And Track (9.12mm,17.55mm)(9.12mm,20.55mm) on E

#### Silk to Silk (Clearance=0.254mm) (All),(All)

Silk To Silk Clearance Constraint: (0.251mm < 0.254mm) Between Text "CLK" (4.658mm,2.155mm) on Bottom Overlay And

#### Net Antennae (Tolerance=0mm) (All)

Net Antennae: Track (6.235mm,32.385mm)(7.735mm,32.385mm) on Bottom Layer

## **Electrical Rules Check Report**

| Class   | Document        | Message   |
|---------|-----------------|---|
| Error   | [03] SOC.SchDoc | +3.3V contains Output Pin and Power Pin objects (Pin U2-5, Pin U1-A6, Pin |
|         |                 | U1-D8, Pin U1-E4, Pin U1-E6, Pin U3-8).                                   |
| Warning | [03] SOC.SchDoc | Component DS1 SML-P12PTT86 at 5300mil,4000mil: Can't perform              |
|         |                 | revision status validation: The server name could not be resolved         |
| Warning | [03] SOC.SchDoc | Component DS1 SML-P12PTT86: Can't perform revision status validation:     |
|         |                 | The server name could not be resolved                                     |
| Warning | [03] SOC.SchDoc | Component DS2 SMLP12BC7TT86 at 4100mil,4000mil: Can't perform             |
|         |                 | revision status validation: The server name could not be resolved         |
| Warning | [03] SOC.SchDoc | Component DS2 SMLP12BC7TT86: Can't perform revision status                |
|         |                 | validation: The server name could not be resolved                         |
| Warning | [03] SOC.SchDoc | Component F1 MF-PSMF050X-2 at 12400mil,3900mil: Can't perform             |
|         |                 | revision status validation: The server name could not be resolved         |
| Warning | [03] SOC.SchDoc | Component F1 MF-PSMF050X-2: Can't perform revision status validation:     |
|         |                 | The server name could not be resolved                                     |
| Warning | [03] SOC.SchDoc | Component U2 TLV73333PDBVR at 13600mil,3900mil: Can't perform             |
|         |                 | revision status validation: The server name could not be resolved         |
| Warning | [03] SOC.SchDoc | Component U2 TLV73333PDBVR: Can't perform revision status validation:     |
|         |                 | The server name could not be resolved                                     |
| Warning | [03] SOC.SchDoc | Component Y1 ECS327-12.5-34B-TR at 9800mil,3600mil: Can't perform         |
|         |                 | revision status validation: The server name could not be resolved         |
| Warning | [03] SOC.SchDoc | Component Y1 ECS327-12.5-34B-TR: Can't perform revision status            |
|         |                 | validation: The server name could not be resolved                         |
| Warning | [03] SOC.SchDoc | Net SPI_MST_CLK has no driving source (Pin P3-1, Pin U1-F3, Pin U3-6)     |
| Warning | [03] SOC.SchDoc | Net SPI_MST_SS1 has no driving source (Pin P4-5, Pin U1-H2, Pin U3-1)     |
| Warning | [03] SOC.SchDoc | Net SYS_RSTn has no driving source (Pin C5-2, Pin P4-4, Pin R13-2, Pin    |
|         |                 | SW2-2, Pin U1-F8)   |
| Warning | [03] SOC.SchDoc | Net XTAL_IN has no driving source (Pin C3-2, Pin U1-B8, Pin Y1-1)         |
| Warning | [03] SOC.SchDoc | Un-Designated Part L?   |

