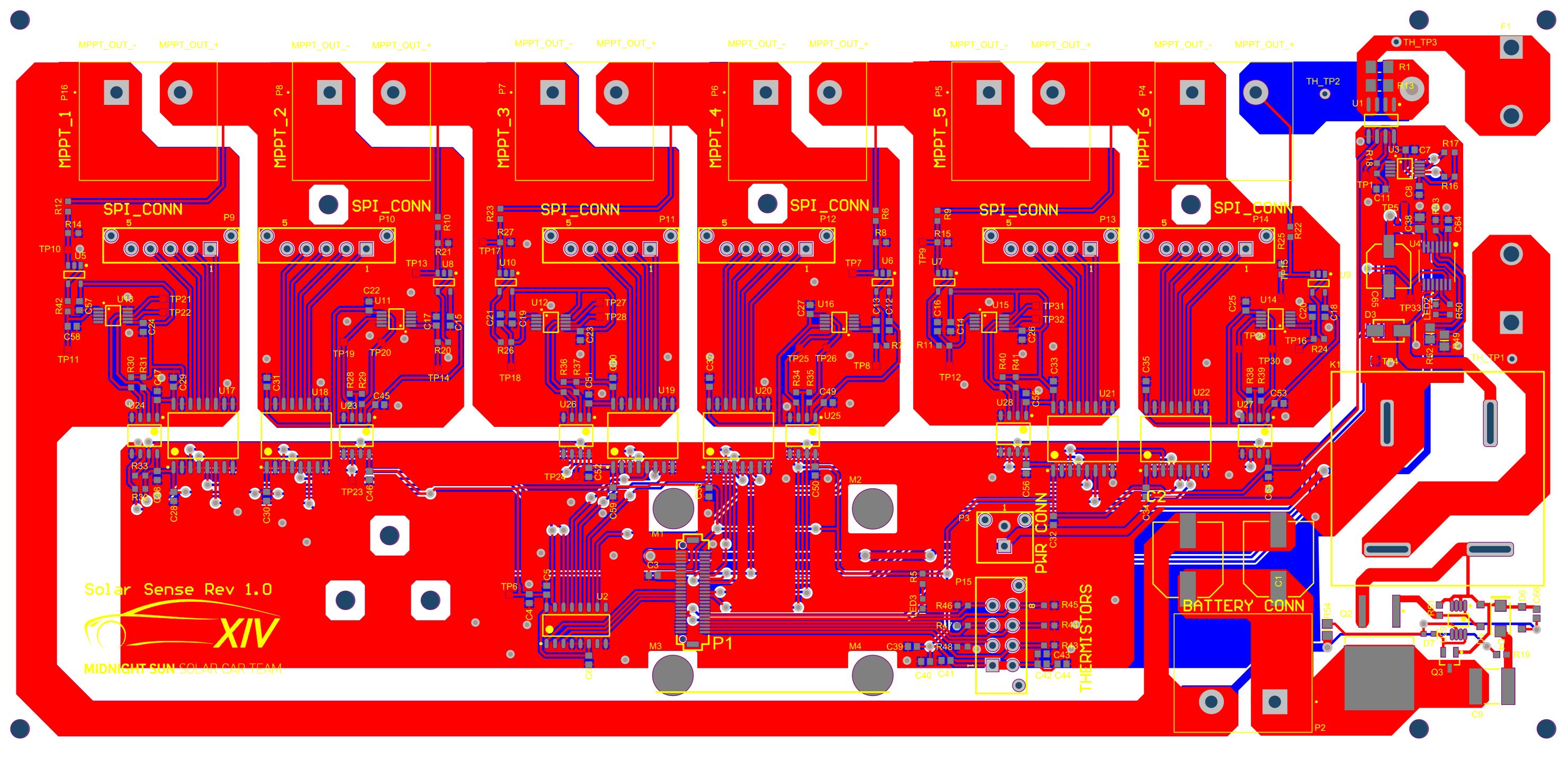
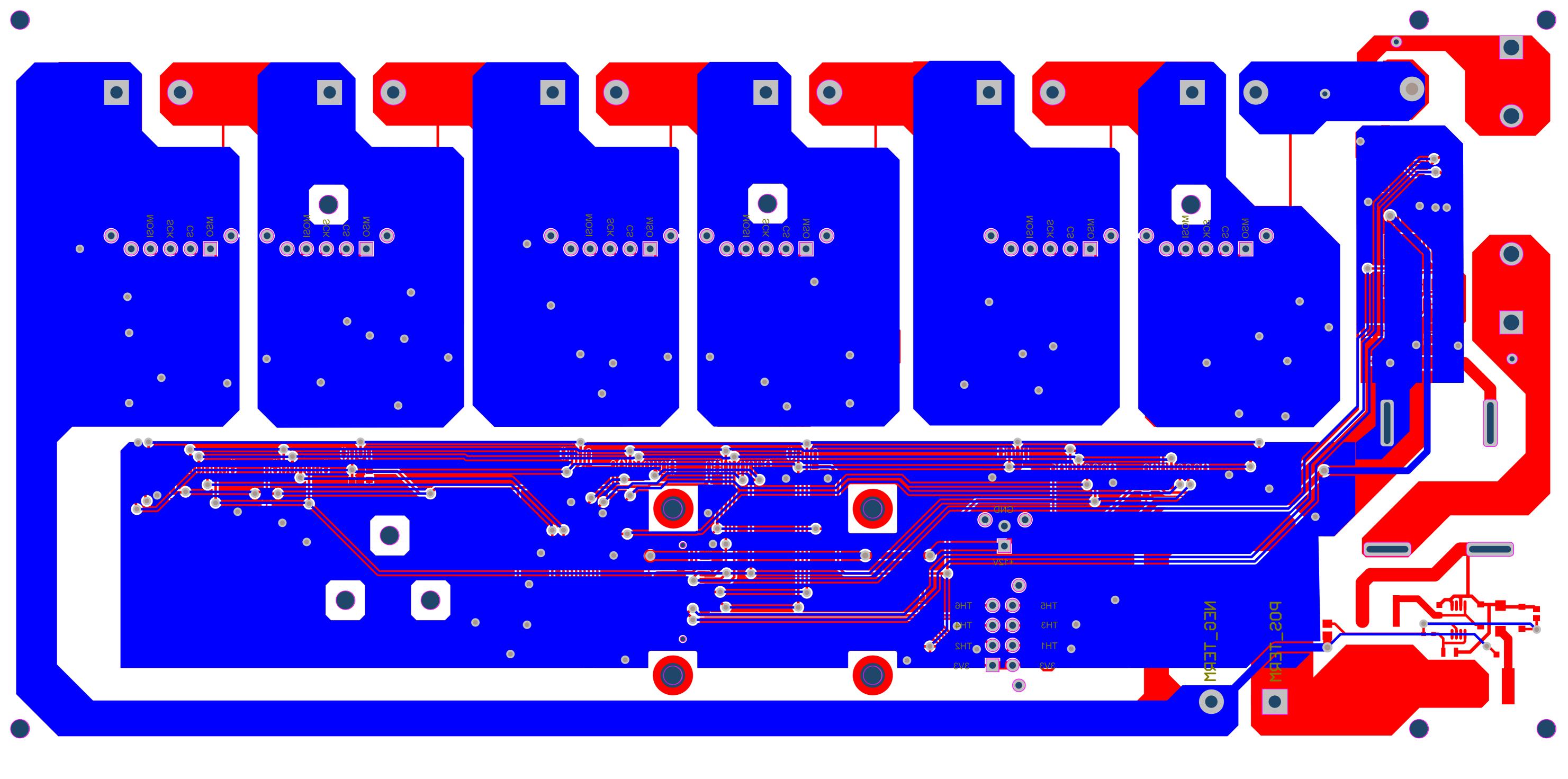
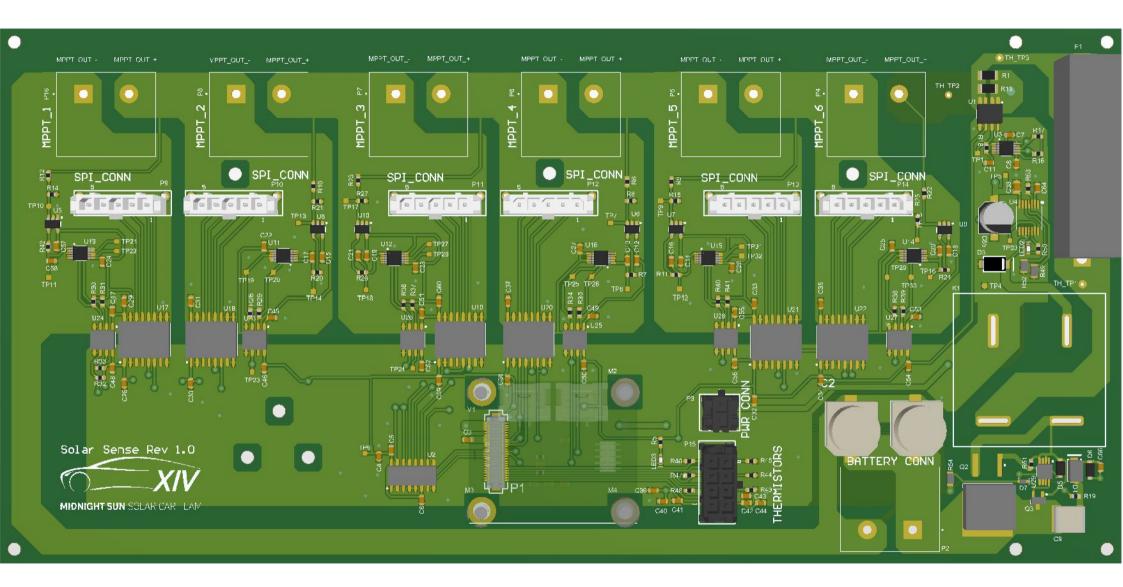


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Electrical Rules Check Report

| Class | Document | Message |
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| Error | Voltage_Sense.SchDoc | HV_LOW contains Power Pin and Output Port objects (Pin U5-2, Port HV_LOW). |
| Error | Controller_Board_Interface.SchDoc | Net PA6/Relay_Sense has only one pin (Pin P1-19) |
| Error | Controller_Board_Interface.SchDoc | Net PA7_ has only one pin (Pin P1-18) |
| Error | Controller_Board_Interface.SchDoc | Net PB0_ has only one pin (Pin P1-17) |
| Error | Controller_Board_Interface.SchDoc | Net PB1_ has only one pin (Pin P1-16) |
| Error | Controller_Board_Interface.SchDoc | Net PB2_ has only one pin (Pin P1-15) |
| Warning | Voltage_Sense.SchDoc | Global Power-Object MPPT_GND_1 at 3650mil,1830mil has been reduced to local level by |
| 107 | VIII C C.I.D | presence of port at 2000mil,1300mil |
| Warning | Voltage_Sense.SchDoc | Global Power-Object MPPT_HV_6 at 3350mil,9100mil has been reduced to local level by |
| Warning | Controller_Board_Interface.SchDoc | presence of port at 2000mil,9400mil Net 12V has no driving source (Pin C38-1, Pin C65-1, Pin P1-47, Pin P1-48, Pin P1-49, Pin |
| vvarriing | Controller_board_internace.Scriboc | P1-50, Pin P3-1, Pin TP5-TP, Pin U4-7) |
| Warning | Current_and_Relay_Sense.SchDoc | Net NetC64_2 has no driving source (Pin C64-2, Pin U4-2) |
| Warning | Current_and_Relay_Sense.SchDoc | Net NetD7_2 has no driving source (Pin D7-2, Pin Q3-2, Pin U29-8) |
| Warning | Voltage_Sense.SchDoc | Net NetR6_2 has no driving source (Pin R6-2, Pin R8-1, Pin TP7-TP, Pin U6-3) |
| Warning | Voltage_Sense.SchDoc | Net NetR9_2 has no driving source (Pin R9-2, Pin R15-1, Pin TP9-TP, Pin U7-3) |
| Warning | Voltage_Sense.SchDoc | Net NetR10_2 has no driving source (Pin R10-2, Pin R21-1, Pin TP13-TP, Pin U8-3) |
| Warning | Voltage_Sense.SchDoc | Net NetR12_2 has no driving source (Pin R12-2, Pin R14-1, Pin TP10-TP, Pin U5-3) |
| Warning | Voltage_Sense.SchDoc | Net NetR22_2 has no driving source (Pin R22-2, Pin R25-1, Pin TP15-TP, Pin U9-3) |
| Warning | Voltage_Sense.SchDoc | Net NetR23_2 has no driving source (Pin R23-2, Pin R27-1, Pin TP17-TP, Pin U10-3) |
| Warning | Current_and_Relay_Sense.SchDoc | Net NetR49_2 has no driving source (Pin R49-2, Pin U4-4) |
| Warning | Current_and_Relay_Sense.SchDoc | Net NetR52_2 has no driving source (Pin R52-2, Pin U4-5) |
| Warning | Current_and_Relay_Sense.SchDoc | Net NetR53_2 has no driving source (Pin R53-2, Pin U4-3) |
| Warning | Controller_Board_Interface.SchDoc | Net PB3_DEMUX_A0 has no driving source (Pin P1-38, Pin U2-1) |
| Warning | Controller_Board_Interface.SchDoc | Net PB4_DEMUX_A1 has no driving source (Pin P1-37, Pin U2-2) |
| Warning Warning | Controller_Board_Interface.SchDoc Current_and_Relay_Sense.SchDoc | Net PB5_DEMUX_A2 has no driving source (Pin P1-36, Pin U2-3) Nets Wire HV_HIGH has multiple names (Net Label HV_HIGH, Power Object MPPT_HV_6, |
| waitiing | Current_and_Relay_Sense.Scribbo | Power Object MPPT HV 6) |
| Warning | ADCs.SchDoc | Nets Wire HV_HIGH_NEG_BAT_TERM has multiple names (Net Label |
| Varining | 7.503.3011500 | HV_HIGH_NEG_BAT_TERM, Net Label HV_LOW, Power Object MPPT_GND_1, Power |
| | | Object MPPT_GND_1, Power Object MPPT_GND_1, Power Object MPPT_GND_1, Power |
| | | Object MPPT_GND_1, Power Object MPPT_GND_1, Power Object MPPT_GND_1, Power |
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| | | Object MPPT_GND_1, Power Object MPPT_GND_1, Po |
| | | Object MPPT_GND_1, Power Object MPPT_GND_1, Power Object MPPT_GND_1, Power |
| Warning | ADCs.SchDoc | No is CAMPANTA PER NO NO. POWER AND INSTEAM OF THE PROPERTY OF |
| | | MPPT_GND_2, Power Object MPPT_GND_2, Power Object MPPT_GND_2, Power Object |
| | | MPPT_GND_2, Power Object MPPT_GND_2, Power Object MPPT_GND_2, Power Object |
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| Warning | ADCs.SchDoc | Mels Wife MPP Powen Pole has multiple had nes (Power Object MPPT_GND_3, Power Object |
| Varining | 7.503.3011500 | MPPT_GND_3, Power Object MPPT_GND_3, Power Object MPPT_GND_3, Power Object |
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| Warning | ADCs.SchDoc | Mels Wife MPPT_GNB_irna multiple names (Power Object MPPT_GND_4, Power Object |
| | | MPPT_GND_4, Power Object MPPT_GND_4, Power Object MPPT_GND_4, Power Object |
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| | | MPPT_GND_4, Power Object MPPT_GND_4, Power Object MPPT_HV_3, Power Object |
| Warning | ADCs.SchDoc | Mels Wife MaPT_GND_5 has multiple names (Power Object MPPT_GND_5, Power Object |
| Warning | ADCS.SCHDUC | • |
| | | MPPT_GND_5, Power Object MPPT_GND_5, Power Object MPPT_GND_5, Power Object |
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| | | MPPT_GND_5, Power Object MPPT_GND_5, Power Object MPPT_HV_4, Power Object |
| Warning | ADCs.SchDoc | Nets Wife MPPT_GND_6 has multiple names (Power Object MPPT_GND_6, Power Object |
| | | MPPT GND 6, Power Object MPPT GND 6, Power Object MPPT GND 6, Power Object |
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| Class | Document | Message |
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| 01033 | Dodamont | MPPT_GND_6, Power Object MPPT_GND_6, Power Object MPPT_GND_6, Power Object |
| | | MPPT_GND_6, Power Object MPPT_GND_6, Power Object MPPT_GND_6, Power Object |
| | | MPPT_GND_6, Power Object MPPT_GND_6, Power Object MPPT_GND_6, Power Object |
| Warning | Controller_Board_Interface.SchDoc | MPPT_HV_5, Power Object MPPT_HV_5) Nets Wire PAO_T emp_1 has multiple names (Cross-Sheet Connector Solar_T emp_1, |
| Warning | Controller_Board_Interface.SchDoc | Cross-Sheet Connector Solar_Temp_1, Net Label PA0_Temp_1) Nets Wire PA1_Temp_2 has multiple names (Cross-Sheet Connector Solar_Temp_2, |
| Warning | Controller_Board_Interface.SchDoc | Cross-Sheet Connector Solar Temp 2, Net Label PA1 Temp 2) Nets Wire PA2_Temp_3 has multiple names (Cross-Sheet Connector Solar_Temp_3, |
| Warning | Controller_board_interface.Scriboc | Cross-Sheet Connector Solar Temp 3, Net Label PA2 Temp 3) |
| Warning | Controller_Board_Interface.SchDoc | Nets Wire PA3_Temp_4 has multiple names (Cross-Sheet Connector Solar_Temp_4, |
| Warning | Controller_Board_Interface.SchDoc | Cross-Sheet Connector Solar_Temp_4, Net Label PA3_Temp_4) Nets Wire PA4_Temp_5 has multiple names (Cross-Sheet Connector Solar_Temp_5, Cross-Sheet Connector Solar Temp_5, Net Label PA4_Temp_5) |
| Warning | Controller_Board_Interface.SchDoc | Nets Wire PA5_Temp_6 has multiple names (Cross-Sheet Connector Solar_Temp_6, |
| Warning | Controller_Board_Interface.SchDoc | Cross-Sheet Connector Solar Temp 6, Net Label PA5 Temp 6) Nets Wire PB10/I2C2_SCL has multiple names (Net Label PB10/I2C2_SCL, Net Label SCL, Net Label SCL, Net Label SCL, Net Label SCL, Net Label SCL) |
| Warning | Controller_Board_Interface.SchDoc | Nets Wire PB11/I2C2_SDA has multiple names (Net Label PB11/I2C2_SDA, Net Label SDA, Net Label SDA, Net Label SDA, Net Label SDA, Net Label SDA) |
| Warning | ADCs.SchDoc | Off grid C24 at 3818.11mil,8674.41mil |
| Warning | ADCs.SchDoc | Off grid Cross-Sheet Connector ADC_SCL_1 at 3600mil,7694.41mil |
| Warning | ADCs.SchDoc | Off grid Cross-Sheet Connector ADC_SDA_1 at 3600mil,7544.41mil |
| Warning | SPI_Interface.SchDoc | Off grid Cross-Sheet Connector PB13_SPI2_SCK at 6574.41mil,6651.811mil |
| Warning | SPI_Interface.SchDoc | Off grid Cross-Sheet Connector PB14_SPI2_MISO at 6574.41mil,6251.811mil |
| Warning | SPI_Interface.SchDoc | Off grid Cross-Sheet Connector PB15_SPI2_MOSI at 6574.41mil,6851.811mil |
| Warning | TemperatureSense.SchDoc | Off grid Cross-Sheet Connector Solar_Temp_2 at 7837.008mil,4796.063mil |
| Warning | TemperatureSense.SchDoc | Off grid Cross-Sheet Connector Solar_Temp_4 at 6687.008mil,4596.063mil |
| Warning | Controller_Board_Interface.SchDoc | Off grid Cross-Sheet Connector Solar_Temp_6 at 2247.008mil,4300mil |
| Warning | TemperatureSense.SchDoc ADCs.SchDoc | Off grid Cross-Sheet Connector Solar_Temp_6 at 5700mil,4396.063mil |
| Warning Warning | ADCs.SchDoc | Off grid Cross-Sheet Connector V_SENSE_1 at 1350mil,8044.41mil Off grid Cross-Sheet Connector V_SENSE_2 at 6281.89mil,8100mil |
| Warning | ADCs.SchDoc | Off grid Cross-Sheet Connector V_SENSE_2 at 0261.69fml,8100mil |
| Warning | ADCs.SchDoc | Off grid Cross-Sheet Connector V_SENSE_4 at 1631.89mil,3500mil |
| Warning | ADCs.SchDoc | Off grid Cross-Sheet Connector V_SENSE_5 at 6531.89mil,3500mil |
| Warning | ADCs.SchDoc | Off grid Cross-Sheet Connector V_SENSE_6 at 11231.89mil,3400mil |
| Warning | Controller_Board_Interface.SchDoc | Off grid M1 at 1693.983mil,2899.713mil |
| Warning | Controller_Board_Interface.SchDoc | Off grid M2 at 2406.601mil,2898.306mil |
| Warning | Controller_Board_Interface.SchDoc | Off grid M3 at 1693.983mil,1949.714mil |
| Warning | Controller_Board_Interface.SchDoc | Off grid M4 at 2406.601mil,1948.306mil |
| Warning | SPI_Interface.SchDoc | Off grid Net Label CS_MPPT 2 at 8674.41mil,6451.811mil |
| Warning | Current_and_Relay_Sense.SchDoc | Off grid Net Label HV_HIGH_NEG_BAT_TERM at 998.148mil,7600mil |
| Warning | SPI_Interface.SchDoc | Off grid Net Label MISO_MPPT 2 at 8624.41mil,6251.811mil |
| Warning | SPI_Interface.SchDoc | Off grid Net Label MISO_MPPT 3 at 12055.512mil,6250mil |
| Warning | SPI_Interface.SchDoc | Off grid Net Label MOSI_MPPT 2 at 8674.41mil,6851.811mil |
| Warning | SPI_Interface.SchDoc | Off grid Net Label MOSI_MPPT 3 at 12055.512mil,6850mil |
| Warning | SPI_Interface.SchDoc | Off grid Net Label SCK_MPPT 2 at 8674.41mil,6651.811mil |
| Warning | Current_and_Relay_Sense.SchDoc | Off grid Net Label SOLAR_RELAY_POS at 11601.896mil,3900mil |
| Warning | Current_and_Relay_Sense.SchDoc | Off grid NetParameter at 6495.503mil,7000mil |
| Warning | SPI_Interface.SchDoc | Off grid No ERC at 6774.41mil,6051.811mil |
| Warning | TemperatureSense.SchDoc | Off grid P15 at 4521.654mil,5096.063mil |
| Warning | ADCs.SchDoc | Off grid Pin C24-1 at 3818.11mil,8674.41mil |
| Warning Warning | ADCs.SchDoc TemperatureSense.SchDoc | Off grid Pin C24-2 at 3818.11mil,8374.41mil Off grid Pin P15-1 at 5421.654mil,4996.063mil |
| Warning | TemperatureSense.SchDoc | Off grid Pin P15-1 at 5421.654mil,4796.063mil |
| Warning | TemperatureSense.SchDoc | Off grid Pin P15-2 at 5421.654mil,4796.063mil |
| Warning | TemperatureSense.SchDoc | Off grid Pin P15-4 at 5421.654mil,4396.063mil |
| Warning | TemperatureSense.SchDoc | Off grid Pin P15-5 at 4521.654mil,4996.063mil |
| Warning | TemperatureSense.SchDoc | Off grid Pin P15-6 at 4521.654mil,4796.063mil |
| Warning | TemperatureSense.SchDoc | Off grid Pin P15-7 at 4521.654mil,4596.063mil |
| Warning | TemperatureSense.SchDoc | Off grid Pin P15-8 at 4521.654mil,4396.063mil |
| Warning | ADCs.SchDoc | Off grid Pin U13-1 at 1658.11mil,8044.41mil |
| Warning | ADCs.SchDoc | Off grid Pin U13-2 at 1658.11mil,7894.41mil |
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| Warning ADCs.SchDoc Off.grid Pin U13-3 at 3108.11mil,7194.41mil | Class | Document | Message |
|--|---------|-----------------------------------|--|
| Warning ADCs SchDoc Off grid Pin U13-4 at 1658.11mil,7544.41mil | Warning | ADCs.SchDoc | Off grid Pin U13-3 at 3108.11mil,7194.41mil |
| Warning ADCs SchDoc Off grid Pin U13-6 at 3108.11mil.8044.41mil | | ADCs.SchDoc | Off grid Pin U13-4 at 1658.11mil,7694.41mil |
| Warning ADCs SchDoc Off grid Pin U13-7 at 3108.11mil,7544.41mil Warning ADCs.SchDoc Off grid Pin U13-8 at 1508.11mil,7694.41mil Warning ADCs.SchDoc Off grid Pin U13-10 at 1658.11mil,794.41mil Warning ADCs.SchDoc Off grid Pin U13-10 at 1658.11mil,7344.41mil Warning SPL_interface.SchDoc Off grid Pin U18-11 at 6774.41mil,7551.811mil Warning SPL_interface.SchDoc Off grid Pin U18-2 at 6774.41mil,6551.811mil Warning SPL_interface.SchDoc Off grid Pin U18-3 at 6774.41mil,6651.811mil Warning SPL_interface.SchDoc Off grid Pin U18-4 at 6774.41mil,6651.811mil Warning SPL_interface.SchDoc Off grid Pin U18-6 at 6774.41mil,6551.811mil Warning SPL_interface.SchDoc Off grid Pin U18-7 at 6774.41mil,6551.811mil Warning SPL_interface.SchDoc Off grid Pin U18-8 at 6774.41mil,6551.811mil Warning SPL_interface.SchDoc Off grid Pin U18-8 at 6774.41mil,6551.811mil Warning SPL_interface.SchDoc Off grid Pin U18-10 at 8574.41mil,6551.811mil Warning SPL_interface.SchDoc Off grid Pin U18-10 at 8574.41mil,6551.811mil Warning SPL_interface.SchD | Warning | ADCs.SchDoc | Off grid Pin U13-5 at 1658.11mil,7544.41mil |
| Warning ADCs.SchDoc Off grid Pin U13-8 at 33108.11mil,7694.41mil Warning ADCs.SchDoc Off grid Pin U13-70 at 1658.11mil,7194.41mil Warning ADCs.SchDoc Off grid Pin U13-10 at 1658.11mil,7194.41mil Warning SPL_Interface.SchDoc Off grid Pin U18-1 at 6774.41mil,7051.811mil Warning SPL_Interface.SchDoc Off grid Pin U18-2 at 6774.41mil,8581.811mil Warning SPL_Interface.SchDoc Off grid Pin U18-3 at 6774.41mil,6651.811mil Warning SPL_Interface.SchDoc Off grid Pin U18-3 at 6774.41mil,6551.811mil Warning SPL_Interface.SchDoc Off grid Pin U18-3 at 8774.41mil,6551.811mil Warning SPL_Interface.SchDoc Off grid Pin U18-10 at 8774.41mil,6551.811mil Warning SPL_Interface.SchDoc Off grid Pin U18-10 at 8774.41mil,6551.811mil Warning SPL_Int | Warning | ADCs.SchDoc | Off grid Pin U13-6 at 3108.11mil,8044.41mil |
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| | Warning | SPI_Interface.SchDoc | Off grid U18 at 7474.41mil,6651.811mil |

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Design Rules Verification ReportFilename : C:\Users\Aashmika Mali\Documents\First Year\Midnight Sun\hardware\MSXIV_

Warnings 0 Rule Violations 159

| Warnings | |
|----------|---|
| Total | 0 |

| Rule Violations | |
|--|-----|
| Clearance Constraint (Gap=10mil) (All),(All) | 0 |
| Short-Circuit Constraint (Allowed=No) (All),(All) | 0 |
| Un-Routed Net Constraint ((All)) | 0 |
| Modified Polygon (Allow modified: No), (Allow shelved: No) | 0 |
| Width Constraint (Min=10mil) (Max=80mil) (Preferred=15mil) (All) | 0 |
| Power Plane Connect Rule(Direct Connect)(Expansion=20mil) (Conductor Width=10mil) (Air Gap=10mil) (Entries=4) | 0 |
| Hole Size Constraint (Min=1mil) (Max=100mil) (All) | 24 |
| Hole To Hole Clearance (Gap=10mil) (All),(All) | 4 |
| Minimum Solder Mask Sliver (Gap=10mil) (All),(All) | 29 |
| Silk To Solder Mask (Clearance=10mil) (IsPad),(All) | 85 |
| Silk to Silk (Clearance=10mil) (All),(All) | 17 |
| Net Antennae (Tolerance=0mil) (All) | 0 |
| Height Constraint (Min=0mil) (Max=1000mil) (Prefered=500mil) (All) | 0 |
| Total | 159 |

| Hole Size Constraint (Min=1mil) (Max=100mil) (All) |
|--|
| Hole Size Constraint: (106.299mil > 100mil) Pad Free-(-118.111mil,118.11mil) on Multi-Layer Actual Hole Size = 106.299mil |
| Hole Size Constraint: (106.299mil > 100mil) Pad Free-(-118.111mil,4306.39mil) on Multi-Layer Actual Hole Size = 106.299mil |
| Hole Size Constraint: (106.299mil > 100mil) Pad Free-(-2218.858mil,3215.5mil) on Multi-Layer Actual Hole Size = 106.299mil |
| Hole Size Constraint: (106.299mil > 100mil) Pad Free-(-4099.52mil,1418.004mil) on Multi-Layer Actual Hole Size = 106.299mil |
| Hole Size Constraint: (106.299mil > 100mil) Pad Free-(-4099.52mil,433.752mil) on Multi-Layer Actual Hole Size = 106.299mil |
| Hole Size Constraint: (106.299mil > 100mil) Pad Free-(-4720.984mil,3221.5mil) on Multi-Layer Actual Hole Size = 106.299mil |
| Hole Size Constraint: (106.299mil > 100mil) Pad Free-(-5280.622mil,1418.004mil) on Multi-Layer Actual Hole Size = 106.299mil |
| Hole Size Constraint: (106.299mil > 100mil) Pad Free-(-5280.622mil,433.752mil) on Multi-Layer Actual Hole Size = 106.299mil |
| Hole Size Constraint: (106.299mil > 100mil) Pad Free-(-6713.063mil,877.5mil) on Multi-Layer Actual Hole Size = 106.299mil |
| Hole Size Constraint: (106.299mil > 100mil) Pad Free-(-6954.677mil,1260.104mil) on Multi-Layer Actual Hole Size = 106.299mil |
| Hole Size Constraint: (106.299mil > 100mil) Pad Free-(-7215.393mil,877.5mil) on Multi-Layer Actual Hole Size = 106.299mil |
| Hole Size Constraint: (106.299mil > 100mil) Pad Free-(-7316.102mil,3215.5mil) on Multi-Layer Actual Hole Size = 106.299mil |
| Hole Size Constraint: (106.299mil > 100mil) Pad Free-(-871.173mil,118.11mil) on Multi-Layer Actual Hole Size = 106.299mil |
| Hole Size Constraint: (106.299mil > 100mil) Pad Free-(-871.173mil,4306.39mil) on Multi-Layer Actual Hole Size = 106.299mil |
| Hole Size Constraint: (106.299mil > 100mil) Pad Free-(-9138.89mil,118.11mil) on Multi-Layer Actual Hole Size = 106.299mil |
| Hole Size Constraint: (106.299mil > 100mil) Pad Free-(-9138.89mil,4306.39mil) on Multi-Layer Actual Hole Size = 106.299mil |
| Hole Size Constraint: (248.031mil > 100mil) Pad K1-1(-451mil,1179mil) on Multi-Layer Actual Slot Hole Height = 248.031mil |
| Hole Size Constraint: (248.031mil > 100mil) Pad K1-2(-1057.299mil,1179mil) on Multi-Layer Actual Slot Hole Height = 248.031mi |
| Hole Size Constraint: (248.031mil > 100mil) Pad K1-3(-449.031mil,1925.063mil) on Multi-Layer Actual Slot Hole Height = 248.031mi |
| Hole Size Constraint: (248.031mil > 100mil) Pad K1-4(-1059.268mil,1925.063mil) on Multi-Layer Actual Slot Hole Height = 248.031mil |
| Hole Size Constraint: (145.669mil > 100mil) Pad M1-(-5277.468mil,1419.409mil) on Multi-Layer Actual Hole Size = 145.669mil |
| Hole Size Constraint: (145.669mil > 100mil) Pad M2-(-4099.52mil,1418.004mil) on Multi-Layer Actual Hole Size = 145.669mil |
| Hole Size Constraint: (145.669mil > 100mil) Pad M3-(-5280.622mil,433.752mil) on Multi-Layer Actual Hole Size = 145.669mil |
| Hole Size Constraint: (145.669mil > 100mil) Pad M4-(-4099.52mil,433.752mil) on Multi-Layer Actual Hole Size = 145.669mil |
| |

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Hole To Hole Clearance (Gap=10mil) (AII),(AII)

Hole To Hole Clearance Constraint: (Collision < 10mil) Between Pad Free-(-4099.52mil,1418.004mil) on Multi-Layer And Pad

Male-7099032n01ba4da@@00001btraint: (Collision < 10mil) Between Pad Free-(-4099.52mil,433.752mil) on Multi-Layer And Pad M4-(-4099.52mil,433.752mil

Hole To Hole Clearance Constraint: (Collision < 10mil) Between Pad Free-(-5280.622mil,1418.004mil) on Multi-Layer And Pad

Hole To Hole Clearance Constraint: (Collision < 10mil) Between Pad Free-(-5280.622mil,433.752mil) on Multi-Layer And Pad

M3-(-5280.622mil,433.752mil)

Minimum Solder Mask Sliver (Gap=10mil) (All),(All)

Minimum Solder Mask Sliver Constraint: (6.727mil < 10mil) Between Pad C43-1(-3124.984mil,560.773mil) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (6.727mil < 10mil) Between Pad C43-2(-3071.834mil,560.773mil) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (8.198mil < 10mil) Between Pad C43-2(-3071.834mil,560.773mil) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (4.145mil < 10mil) Between Pad P1-(-5162.512mil,1232.964mil) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (4.145mil < 10mil) Between Pad P1-(-5162.512mil,618.791mil) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (5.78mil < 10mil) Between Pad U10-1(-6229.441mil,2810.72mil) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (5.779mil < 10mil) Between Pad U10-2(-6266.842mil,2810.72mil) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (3.591mil < 10mil) Between Pad U4-1(-687.728mil,2965.255mil) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (3.591mil < 10mil) Between Pad U4-10(-790.09mil,2743.255mil) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (3.59mil < 10mil) Between Pad U4-10(-790.09mil,2743.255mil) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (3.59mil < 10mil) Between Pad U4-11(-764.5mil,2743.255mil) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (3.591mil < 10mil) Between Pad U4-12(-738.909mil,2743.255mil) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (3.59mil < 10mil) Between Pad U4-13(-713.319mil,2743.255mil) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (3.591mil < 10mil) Between Pad U4-2(-713.319mil,2965.255mil) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (3.59mil < 10mil) Between Pad U4-3(-738.909mil,2965.255mil) on Top Layer And Pad Manif(nJan Sordia 9M5 \$255mil) on Top Layer And Pad Man (เชียง Serviti, 1946 เลียง เลียง เลียง ค.ศ. 10mil) Between Pad U4-5(-790.09mil, 2965.255mil) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (3.59mil < 10mil) Between Pad U4-6(-815.681mil,2965.255mil) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (3.591mil < 10mil) Between Pad U4-8(-841.271mil,2743.255mil) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (5.78mil < 10mil) Between Pad U5-1(-8780.031mil,2856.232mil) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (5.779mil < 10mil) Between Pad U5-2(-8817.433mil,2856.232mil) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (5.78mil < 10mil) Between Pad U6-1(-4003.063mil,2810.72mil) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (5.779mil < 10mil) Between Pad U6-2(-4040.464mil,2810.72mil) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (5.78mil < 10mil) Between Pad U7-1(-3637.905mil,2810.72mil) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (5.779mil < 10mil) Between Pad U7-2(-3675.307mil,2810.72mil) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (5.78mil < 10mil) Between Pad U8-1(-6595.386mil,2810.72mil) on Top Layer And Pac Minimum Solder Mask Sliver Constraint: (5.779mil < 10mil) Between Pad U8-2(-6632.787mil.2810.72mil) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (5.78mil < 10mil) Between Pad U9-1(-1426.291mil,2805.799mil) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (5.779mil < 10mil) Between Pad U9-2(-1463.693mil,2805.799mil) on Top Layer And Pad

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| Silk To Solder Mask (Clearance=10mil) (IsPad),(All) |
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| Silk To Solder Mask Clearance Constraint: (7.874mil < 10mil) Between Arc (-230.11mil,851.756mil) on Top Overlay And Pad D6-1(-262mil,838.37mil) or |
| Silk To Solder Mask Clearance Constraint: (7.874mil < 10mil) Between Arc (-538.89mil,710.244mil) on Top Overlay And Pad D5-1(-507mil,723.63mil) or |
| Silk To Solder Mask Clearance Constraint: (7.874mil < 10mil) Between Arc (-853.37mil,702.622mil) on Top Overlay And Pad D7-1(-843.528mil,679mil) or |
| Silk To Solder Mask Clearance Constraint: (Collision < 10mil) Between Pad C1-1(-1701mil,947.772mil) on Top Layer And Text "BATTERY CONN" |
| Silk To Solder Mask Clearance Constraint: (Collision < 10mil) Between Pad C1-1(-1701mil,947.772mil) on Top Layer And Text "C1" |
| Silk To Solder Mask Clearance Constraint: (7.874mil < 10mil) Between Pad C1-1(-1701mil,947.772mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (7.874mil < 10mil) Between Pad C1-1(-1701mil,947.772mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (8.709mil < 10mil) Between Pad C11-2(-1121.575mil,3308mil) on Top Layer And Text "TP1" |
| Silk To Solder Mask Clearance Constraint: (7.874mil < 10mil) Between Pad C1-2(-1701mil,1294.228mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (7.874mil < 10mil) Between Pad C1-2(-1701mil,1294.228mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (8.995mil < 10mil) Between Pad C15-1(-6595.386mil,2553.24mil) on Top Layer And Text "C15' |
| Silk To Solder Mask Clearance Constraint: (7.941mil < 10mil) Between Pad C15-2(-6595.386mil,2500.09mil) on Top Layer And Text "C15' |
| Silk To Solder Mask Clearance Constraint: (Collision < 10mil) Between Pad C2-1(-2236mil,943.772mil) on Top Layer And Text "BATTERY CONN' |
| Silk To Solder Mask Clearance Constraint: (7.874mil < 10mil) Between Pad C2-1(-2236mil,743.772mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (7.874mil < 10mil) Between Pad C2-1(-2236mil,743.772mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (7.874mil < 10mil) Between Pad C2-2(-2236mil,1290.228mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (7.874mil < 10mil) Between Pad C2-2(-2236mil,1270.228mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (7.674fml < 10fml) Between Pad C34-1(-2483.181mil,1543.004mil) on Top Layer And Text "C2' |
| Silk To Solder Mask Clearance Constraint: (Collision < 10mil) Between Pad C34-2(-2483.181mil,1489.854mil) on Top Layer And Text "C2" |
| Silk To Solder Mask Clearance Constraint: (Collision < 10mil) Between Pad C6-2(-5776.488mil,498.713mil) on Top Layer And Text "C6" |
| Silk To Solder Mask Clearance Constraint: (7.874mil < 10mil) Between Pad C65-1(-1049.5mil,2968.334mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (7.874mil < 10mil) Between Pad C65-1(-1049.5mil,2968.334mil) on Top Layer And Track Silk To Solder Mask Clearance Constraint: (7.874mil < 10mil) Between Pad C65-1(-1049.5mil,2968.334mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (7.874mil < 10mil) Between Pad C65-2(-1049.5mil,2968.334mil) on Top Layer And Track Silk To Solder Mask Clearance Constraint: (7.874mil < 10mil) Between Pad C65-2(-1049.5mil,2736.05mil) on Top Layer And Track |
| |
| Silk To Solder Mask Clearance Constraint: (7.874mil < 10mil) Between Pad C65-2(-1049.5mil,2736.05mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (6.535mil < 10mil) Between Pad D3-1(-1130.008mil,2470.294mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (6.535mil < 10mil) Between Pad D3-1(-1130.008mil,2470.294mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (6.535mil < 10mil) Between Pad D3-2(-972.527mil,2470.294mil) on Top Layer And Track Silk To Solder Mask Clearance Constraint: (6.535mil < 10mil) Between Pad D3-2(-972.527mil,2470.294mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (0.535iffil < 10fili) Between Pad D3-2(-972.527ffili,2470.294ffili) on Top Layer And Track Silk To Solder Mask Clearance Constraint: (2.839mil < 10mil) Between Pad D7-2(-784.472mil,679mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (2.839ffff < 10ffff) Between Pad LED2-2(-772.301mil, 2626.291mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (8.213mil < 10mil) Between Pad LED3-2(-3804.244mil,827.453mil) on Top Layer And Track Silk To Solder Mask Clearance Constraint: (8.213mil < 10mil) Between Pad LED3-2(-3804.244mil,827.453mil) on Top Layer And Track |
| |
| Silk To Solder Mask Clearance Constraint: (0.408mil < 10mil) Between Pad M3-(-5280.622mil,433.752mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (0.408mil < 10mil) Between Pad M4-(-4099.52mil,433.752mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (8.4mil < 10mil) Between Pad P10-0(-6969.598mil,3031.39mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (9.281mil < 10mil) Between Pad P10-0(-6969.598mil,3031.39mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (7.053mil < 10mil) Between Pad P10-0(-7678.26mil,3031.39mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (9.281mil < 10mil) Between Pad P10-0(-7678.26mil,3031.39mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (8.78mil < 10mil) Between Pad P1-1(-5091.646mil,1162.097mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (8.4mil < 10mil) Between Pad P11-0(-5292.433mil,3031.39mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (9.281mil < 10mil) Between Pad P11-0(-5292.433mil,3031.39mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (7.053mil < 10mil) Between Pad P11-0(-6001.094mil,3031.39mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (9.281mil < 10mil) Between Pad P11-0(-6001.094mil,3031.39mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (8.4mil < 10mil) Between Pad P12-0(-4371.173mil,3031.39mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (9.281mil < 10mil) Between Pad P12-0(-4371.173mil,3031.39mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (7.053mil < 10mil) Between Pad P12-0(-5079.834mil,3031.39mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (9.281mil < 10mil) Between Pad P12-0(-5079.834mil,3031.39mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (8.767mil < 10mil) Between Pad P1-25(-5091.646mil,689.657mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (9.4mil < 10mil) Between Pad P1-26(-5233.378mil,689.657mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (8.4mil < 10mil) Between Pad P13-0(-2691.055mil,3031.39mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (9.281mil < 10mil) Between Pad P13-0(-2691.055mil,3031.39mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (7.053mil < 10mil) Between Pad P13-0(-3399.716mil,3031.39mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (9.281mil < 10mil) Between Pad P13-0(-3399.716mil,3031.39mil) on Multi-Layer And Track |

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| Silk To Solder Mask (Clearance=10mil) (IsPad),(All) |
|--|
| Silk To Solder Mask Clearance Constraint: (8.4mil < 10mil) Between Pad P14-0(-1772.748mil,3031.39mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (9.281mil < 10mil) Between Pad P14-0(-1772.748mil,3031.39mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (7.053mil < 10mil) Between Pad P14-0(-2481.409mil,3031.39mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (9.281mil < 10mil) Between Pad P14-0(-2481.409mil,3031.39mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (9.281mil < 10mil) Between Pad P15-0(-3235.74mil,374.697mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (7.376mil < 10mil) Between Pad P15-0(-3235.74mil,374.697mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (9.281mil < 10mil) Between Pad P15-0(-3235.74mil,965.248mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (9.918mil < 10mil) Between Pad P15-0(-3235.74mil,965.248mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (9.401mil < 10mil) Between Pad P1-50(-5233.378mil,1162.097mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (8.4mil < 10mil) Between Pad P3-0(-3198.89mil,1353.118mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (9.281mil < 10mil) Between Pad P3-0(-3198.89mil,1353.118mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (7.053mil < 10mil) Between Pad P3-0(-3435.11mil,1353.118mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (9.281mil < 10mil) Between Pad P3-0(-3435.11mil,1353.118mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (8.4mil < 10mil) Between Pad P9-0(-7890.858mil,3031.39mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (9.281mil < 10mil) Between Pad P9-0(-7890.858mil,3031.39mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (7.053mil < 10mil) Between Pad P9-0(-8599.519mil,3031.39mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (9.281mil < 10mil) Between Pad P9-0(-8599.519mil,3031.39mil) on Multi-Layer And Track |
| Silk To Solder Mask Clearance Constraint: (9.133mil < 10mil) Between Pad R18-1(-1119mil,3460.512mil) on Top Layer And Text "R18' |
| Silk To Solder Mask Clearance Constraint: (Collision < 10mil) Between Pad R25-1(-1684.549mil,2803.988mil) on Top Layer And Text "TP15" |
| Silk To Solder Mask Clearance Constraint: (Collision < 10mil) Between Pad R25-2(-1684.549mil,2865.012mil) on Top Layer And Text "TP15" |
| Silk To Solder Mask Clearance Constraint: (2.51mil < 10mil) Between Pad R28-2(-7190.071mil,2037.098mil) on Top Layer And Text "U23" |
| Silk To Solder Mask Clearance Constraint: (9.584mil < 10mil) Between Pad R38-2(-1875.11mil,2056.783mil) on Top Layer And Text "U27" |
| Silk To Solder Mask Clearance Constraint: (7.874mil < 10mil) Between Pad R49-1(-720.701mil,2376.449mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (8.513mil < 10mil) Between Pad R49-2(-720.701mil,2447.315mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (7.874mil < 10mil) Between Pad R52-1(-805.611mil,2419.175mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (8.513mil < 10mil) Between Pad R52-2(-805.611mil,2490.041mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (8.806mil < 10mil) Between Pad R54-1(-1413.039mil,738.755mil) on Top Layer And Text "R54" |
| Silk To Solder Mask Clearance Constraint: (8.513mil < 10mil) Between Pad R54-1(-1413.039mil,738.755mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (7.874mil < 10mil) Between Pad R54-2(-1413.039mil,667.889mil) on Top Layer And Track |
| Silk To Solder Mask Clearance Constraint: (6.54mil < 10mil) Between Pad TP15-TP(-1687.063mil,2667.961mil) on Top Layer And Text "U14" |
| Silk To Solder Mask Clearance Constraint: (9.791mil < 10mil) Between Pad U13-1(-8675.173mil,2599.106mil) on Top Layer And Text "C57' |
| Silk To Solder Mask Clearance Constraint: (9.797mil < 10mil) Between Pad U13-2(-8675.173mil,2579.421mil) on Top Layer And Text "C57' |
| Silk To Solder Mask Clearance Constraint: (8.009mil < 10mil) Between Pad U4-(-654mil,2980.505mil) on Top Overlay And Polygon Region (42 hole(s)) |
| Ton |

| Sill | < tc | Sil | lk (| (Clear | ance | =1 | 10 | mi | I) | (All |),(/ | AII) |
|------|------|-----|------|--------|------|----|----|----|----|------|------|------|
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| Silk To Silk Clearance Constraint: (3.858mil < 10mil) Between Text "1" (-3324.874mil,1410.598mil) on Top Overlay And Track |
| Silk To Silk Clearance Constraint: (7.806mil < 10mil) Between Text "1" (-3536.527mil,496.744mil) on Top Overlay And Track |
| Silk To Silk Clearance Constraint: (7.795mil < 10mil) Between Text "5" (-2386.921mil,3092.807mil) on Top Overlay And Track |
| Silk To Silk Clearance Constraint: (7.795mil < 10mil) Between Text "5" (-3305.228mil,3092.807mil) on Top Overlay And Track |
| Silk To Silk Clearance Constraint: (7.795mil < 10mil) Between Text "5" (-4985.346mil,3092.807mil) on Top Overlay And Track |
| Silk To Silk Clearance Constraint: (7.795mil < 10mil) Between Text "5" (-5906.606mil,3092.807mil) on Top Overlay And Track |
| Silk To Silk Clearance Constraint: (7.795mil < 10mil) Between Text "5" (-7583.771mil,3092.807mil) on Top Overlay And Track |
| Silk To Silk Clearance Constraint: (7.795mil < 10mil) Between Text "5" (-8505.031mil,3092.807mil) on Top Overlay And Track |
| Silk To Silk Clearance Constraint: (7.795mil < 10mil) Between Text "8" (-3174.323mil,855.012mil) on Top Overlay And Track |
| Silk To Silk Clearance Constraint: (8.189mil < 10mil) Between Text "BATTERY CONN" (-2256.516mil,817.452mil) on Top Overlay And Track |
| Silk To Silk Clearance Constraint: (8.189mil < 10mil) Between Text "BATTERY CONN" (-2256.516mil,817.452mil) on Top Overlay And Track |
| Silk To Silk Clearance Constraint: (9.475mil < 10mil) Between Text "C66" (-156.797mil,861.324mil) on Top Overlay And Track |
| Silk To Silk Clearance Constraint: (9.598mil < 10mil) Between Text "D3" (-1186.989mil,2548.283mil) on Top Overlay And Track |
| Silk To Silk Clearance Constraint: (9.598mil < 10mil) Between Text "D3" (-1186.989mil,2548.283mil) on Top Overlay And Track |
| Silk To Silk Clearance Constraint: (7.775mil < 10mil) Between Text "PWR CONN" (-3073.89mil,1045.52mil) on Top Overlay And Track |
| Silk To Silk Clearance Constraint: (8.737mil < 10mil) Between Text "PWR CONN" (-3073.89mil,1045.52mil) on Top Overlay And Track |
| Silk To Silk Clearance Constraint: (8.966mil < 10mil) Between Text "PWR CONN" (-3073.89mil,1045.52mil) on Top Overlay And Track |
| |

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