STMod+ Environmental Sensors

MB1542B

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Sheet 3: Power Supply Module

Sheet 4: Environmental Sensors Module

Sheet 5: Analog Gas Sensor Module

Legend

General comment such as function title, configuration, ...

Text to be added to silkscreen.

Warning text.

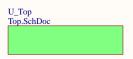
Notes to generate the board layout.

Open Platform License Agreement

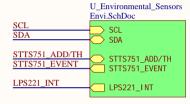
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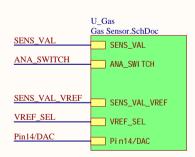
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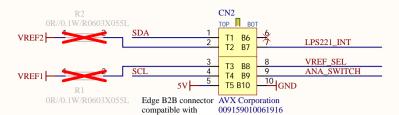
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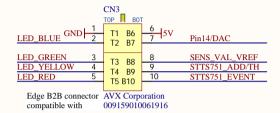


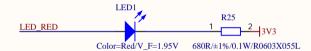
Fitle: Projec	t overview		Т
Project: STN	Iod+ Environmental Se	nsors	1
Variant: Def	ault		1
Revision: A-01		Reference: MB1542B	1.
Size: A4	Date: 20-SEP-19	Sheet: 1 of 5	111

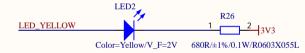




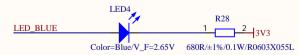




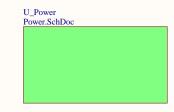


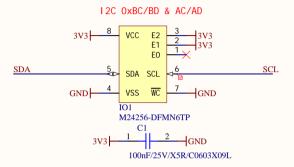






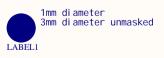
Note: Forward voltage of LEDs can be higher than 3V3 for some partnumbers

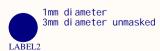




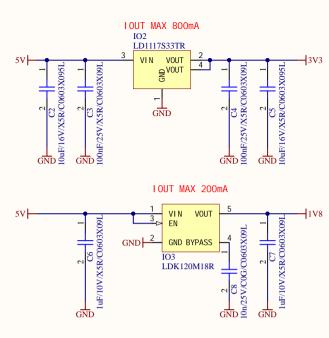




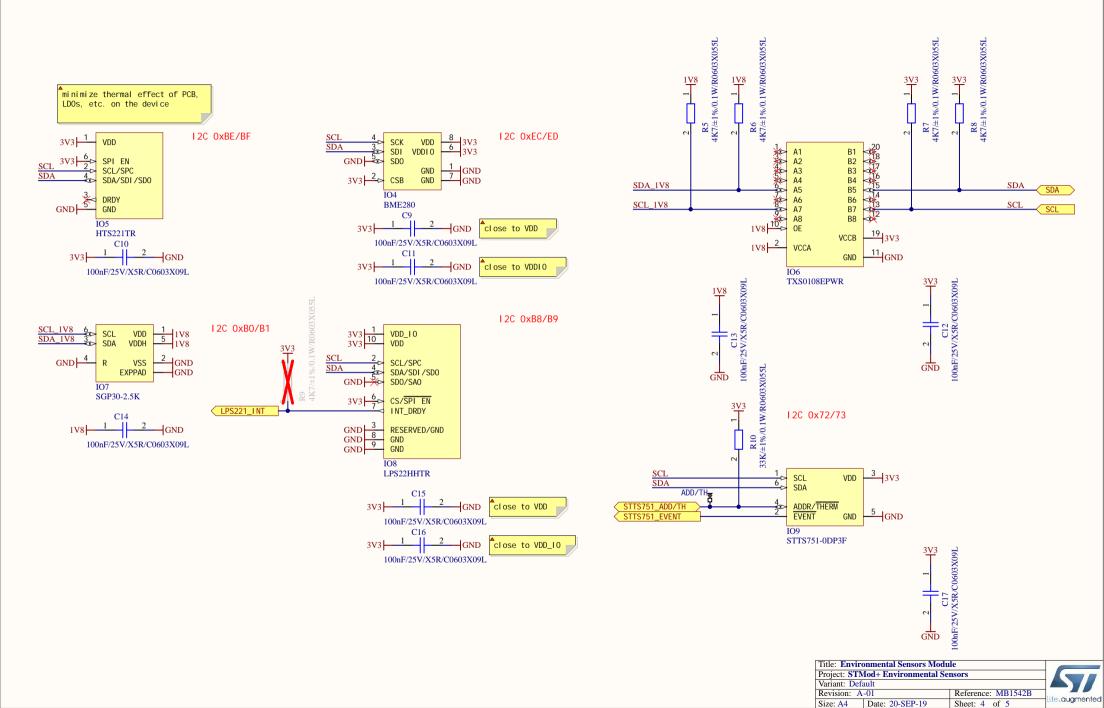


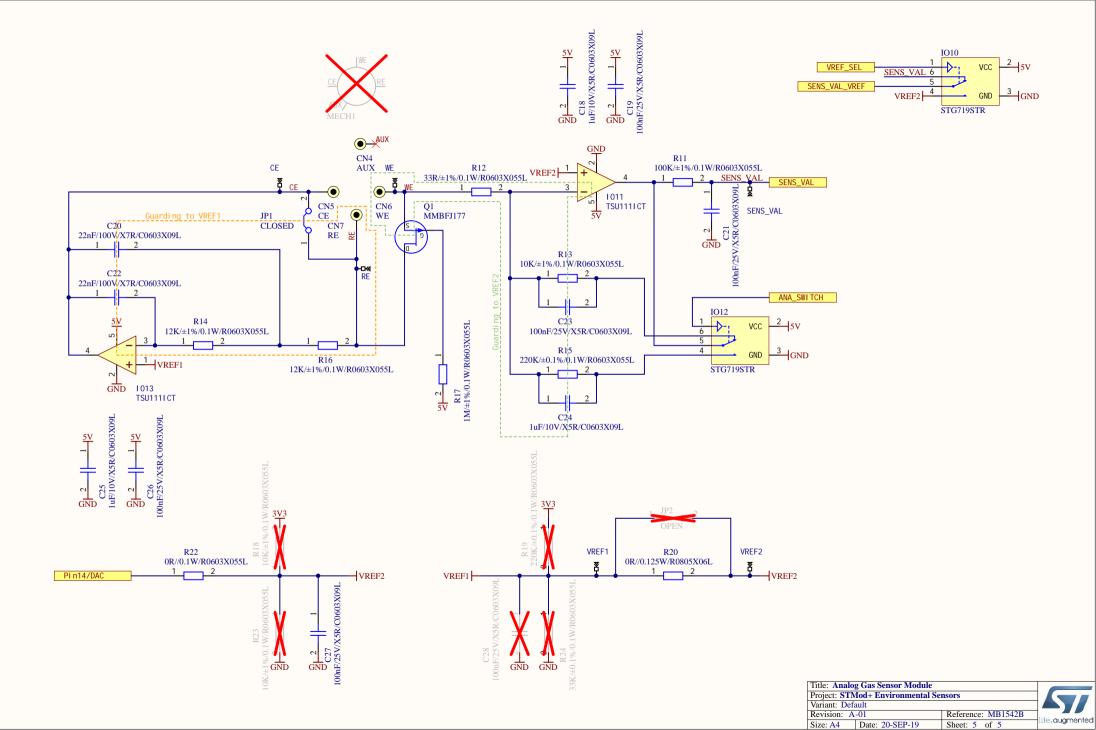


Title: MB15	42_TOP		
Project: STMod+ Environmental Sensors			
Variant: Def	ault		
Revision: A-01		Reference: MB1542B	life aven
Size: A4	Date: 20-SFP-19	Sheet: 2 of 5	life.augm



Title: Power Supply Module	
Project: STMod+ Environmental S	ensors
Variant: Default	
Revision: A-01	Reference: MB1542B
Size: A4 Date: 20-SEP-19	Sheet: 3 of 5





Design Rules Verification ReportFilename : C:\Users\coppervia\Documents\AD_Projects\MB1542B\MB1542B.PcbDoc

Warnings 0 Rule Violations 0

Warnings	
Total	0

Rule Violations	
Clearance Constraint (Gap=0.25mm) (All),(All)	0
Clearance Constraint (Gap=0.25mm) (Disabled)(InNet('GND') And OnLayer('Top Layer')),(All)	
Short-Circuit Constraint (Allowed=No) (All),(All)	0
Un-Routed Net Constraint ((All))	
Modified Polygon (Allow modified: No), (Allow shelved: No)	0
Width Constraint (Min=0.2mm) (Max=1mm) (Preferred=0.25mm) (All)	0
Routing Layers(All)	0
Routing Via (MinHoleWidth=0.3mm) (MaxHoleWidth=0.3mm) (PreferredHoleWidth=0.3mm) (MinWidth=0.8mm)	0
Differential Pairs Uncoupled Length using the Gap Constraints (Min=0.254mm) (Max=0.254mm) (Prefered=0.254mm)	0
Power Plane Connect Rule(Relief Connect)(Expansion=0.508mm) (Conductor Width=0.21mm) (Air Gap=0.21mm)	0
Acute Angle Constraint (Minimum=60.000) (All)	0
Hole Size Constraint (Min=0.025mm) (Max=10mm) (All)	0
Pads and Vias to follow the Drill pairs settings	0
Hole To Hole Clearance (Gap=0.254mm) (All),(All)	0
Minimum Solder Mask Sliver (Gap=0.1mm) (IsPad),(IsVia)	0
Silk To Solder Mask (Clearance=0.2mm) (IsPad),(All)	0
Silk to Silk (Clearance=0.2mm) (All),(All)	0
Net Antennae (Tolerance=0mm) (All)	0
Board Clearance Constraint (Gap=0mm) (All)	0
Board Clearance Constraint (Gap=0mm) (HasFootprint('AVX-009159010061916_DEVICE'))	0
Room U_Top (Bounding Region = (0.1mm, 41.875mm, 43.375mm, 111.475mm) (InComponentClass('U_Top'))	0
Room U_Environmental_Sensors (Bounding Region = (2.3mm, 40.5mm, 28.475mm, 91.975mm)	0
Room U_Power (Bounding Region = (8.65mm, 50.825mm, 44.3mm, 97.775mm) (InComponentClass('U_Power'))	0
Room U_Gas (Bounding Region = (12.15mm, 44.275mm, 37.5mm, 91.85mm) (InComponentClass('U_Gas'))	0
Component Clearance Constraint (Horizontal Gap = -2mm, Vertical Gap = Infinite)	0
Component Clearance Constraint (Horizontal Gap = 0.254mm, Vertical Gap = 0.254mm) (All),(All)	0
Component Clearance Constraint (Horizontal Gap = -2mm, Vertical Gap = Infinite)	0
Height Constraint (Min=0mm) (Max=25.4mm) (Prefered=12.7mm) (All)	0
Total	0

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Electrical Rules Check Report

Class	Document	Message
Suppressed No	Envi.SchDoc	GND contains IO Pin and Power Pin objects (Pin IO4-1,Pin IO7-2,Pin IO9-5,Pin IO5-5,Pin
Report		104-5, Pin 104-7, Pin 108-8, Pin 108-9, Pin 106-11) (Suppressed)
Suppressed No	Envi.SchDoc	GND contains IO Pin and Power Pin objects (Pin MNT1-1,Pin IO2-1,Pin IO4-1,Pin
Report		IO3-2,Pin IO13-2,Pin IO11-2,Pin IO7-2,Pin IO12-3,Pin IO10-3,Pin IO1-4,Pin IO4-5,Pin
·		105-5, Pin 109-5, Pin 104-7, Pin 108-8, Pin 108-9, Pin 106-11) (Suppressed)
Suppressed No	Envi.SchDoc	SCL contains IO Pin and Input Port objects (Pin IO6-13, Port SCL) (Suppressed)
Report		

