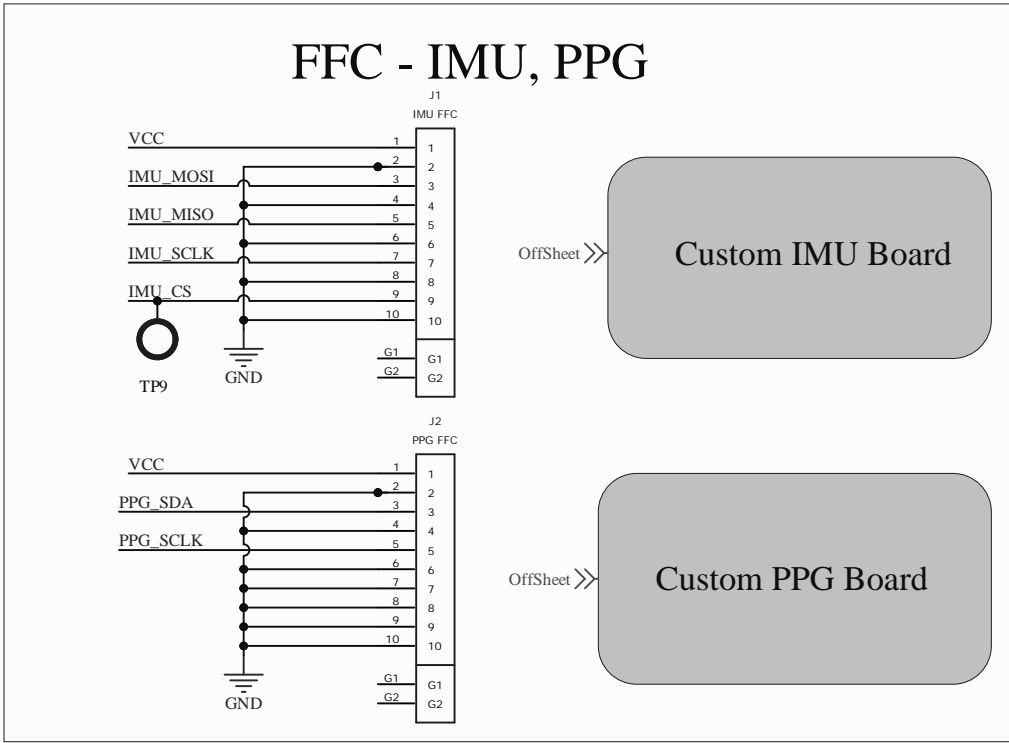
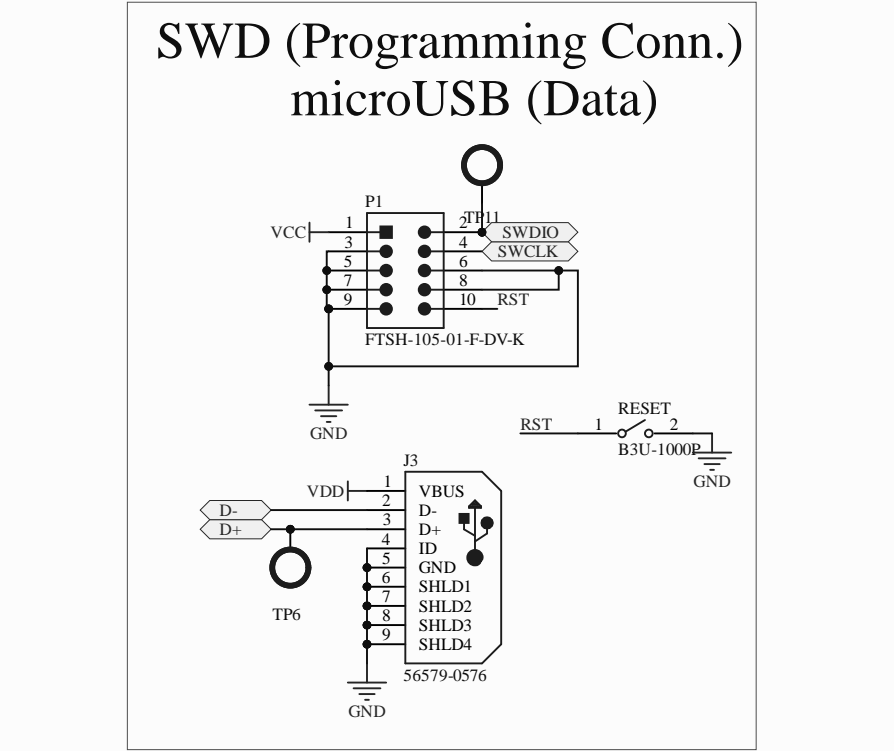
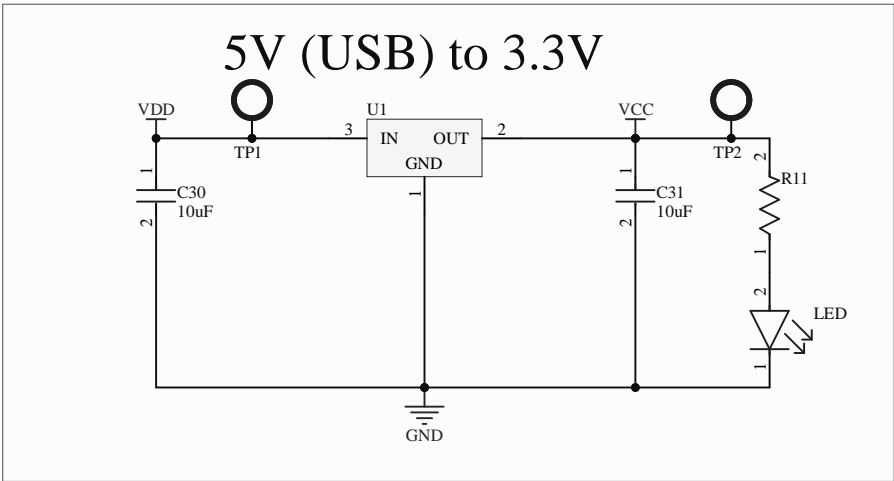
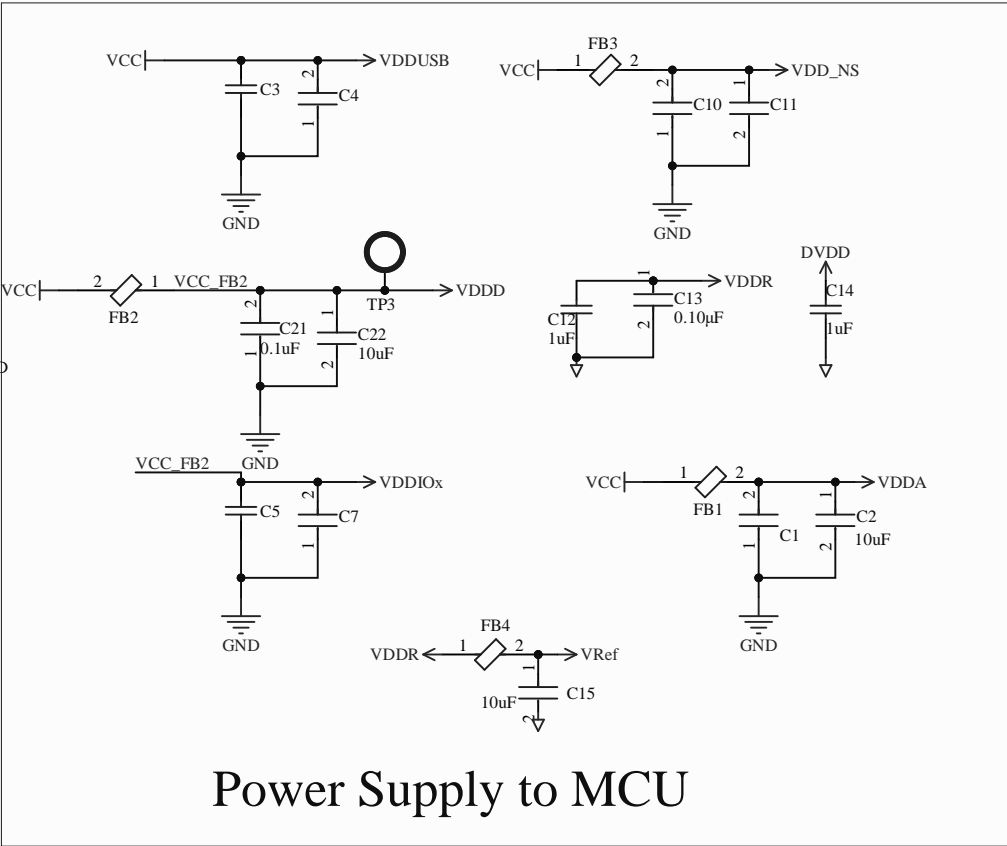
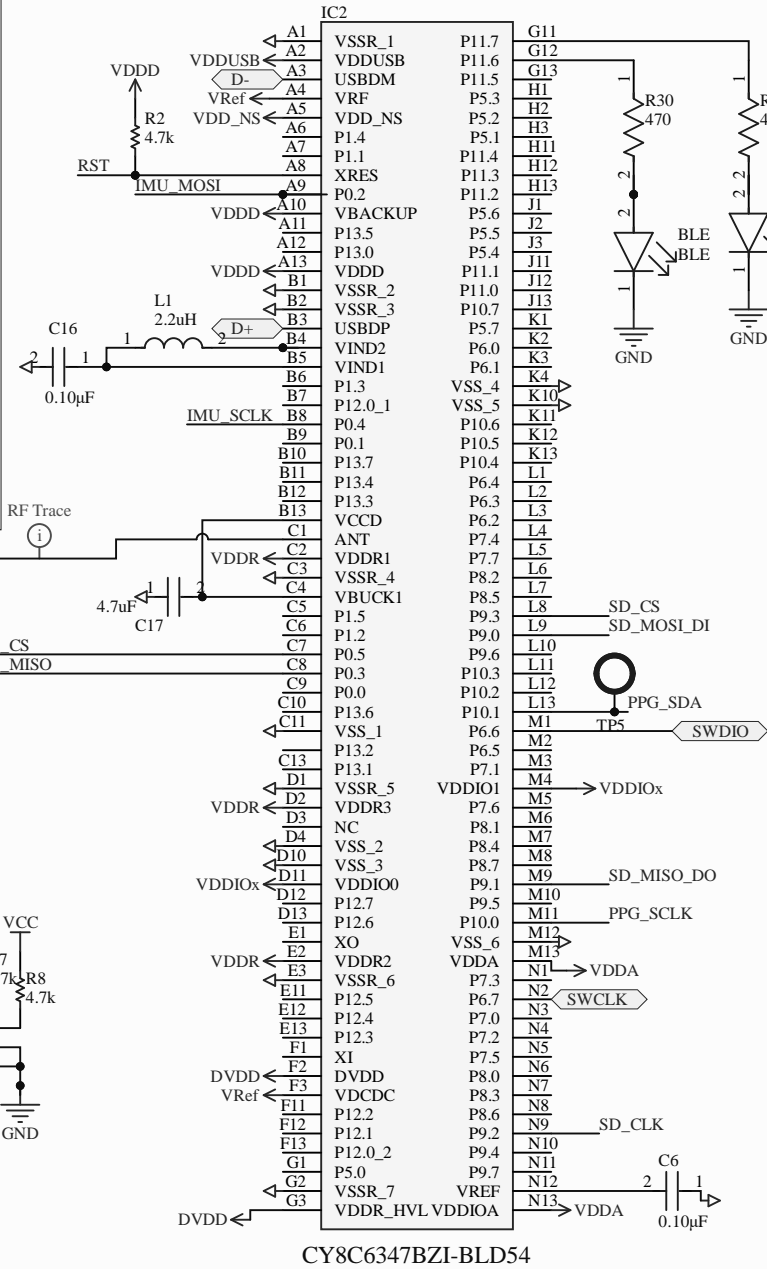


Cypress PSoC63 (M4F Cortex)



JY-16 Cardiac Arrest Monitor

Title		
Size	Number	Revision
A		
Date:	3-02-2023	Sheet of
File:	C:\Users\...\PSoC6-Cardiac-Schematic.Sch	Drawn By:

Design Rules Verification Report

Filename : C:\Users\harsh\OneDrive\Desktop\GitHub Projects\Wearable-Cardiac-Monitor
-JY16-Capstone\Capstone Circuit JY16\Cypress PSoC6 Embedded Bluetooth Solution\P

Warnings 0
Rule Violations 55

Warnings	
Total	0

Rule Violations	
Clearance Constraint (Gap=5.984mil) (WithinRoom('BGA')), (All)	0
Clearance Constraint (Gap=10mil) (All), (All)	0
Short-Circuit Constraint (Allowed=No) (All), (All)	2
Un-Routed Net Constraint (All)	0
Modified Polygon (Allow modified: No), (Allow shelved: No)	0
Width Constraint (Min=15mil) (Max=20mil) (Preferred=15mil) (InNet('VCC') Or InNet('VDD'))	0
Width Constraint (Min=8mil) (Max=15mil) (Preferred=10mil) (All)	0
Width Constraint (Min=10mil) (Max=20mil) (Preferred=10mil) (InNet('NetC1_BLE_1') or InNet('NetC1_BLE_2') or	0
Width Constraint (Min=5mil) (Max=7mil) (Preferred=6mil) (WithinRoom('BGA'))	0
Power Plane Connect Rule(Relief Connect) (Expansion=20mil) (Conductor Width=10mil) (Air Gap=10mil) (Entries=4)	0
Hole Size Constraint (Min=1mil) (Max=100mil) (All)	0
Hole To Hole Clearance (Gap=10mil) (All), (All)	0
Minimum Solder Mask Sliver (Gap=10mil) (All), (All)	43
Silk to Silk (Clearance=10mil) (All), (All)	10
Net Antennae (Tolerance=0mil) (All)	0
Room BGA (Bounding Region = (1518.409mil, 4632.819mil, 1968.409mil, 5076.819mil) (False)	0
Height Constraint (Min=0mil) (Max=1000mil) (Preferred=500mil) (All)	0
Total	55

Short-Circuit Constraint (Allowed=No) (All), (All)	
Short-Circuit Constraint: Between Pad IC2-L5(1684mil,4751.276mil) on Top Layer And Track (1684mil,4750.703mil)(1684mil,4751.276mil) on Top	
Short-Circuit Constraint: Between Pad IC2-L5(1684mil,4751.276mil) on Top Layer And Track (1684mil,4750.703mil)(1684mil,4751.276mil) on Top	

Minimum Solder Mask Sliver (Gap=10mil) (All),(All)
Minimum Solder Mask Sliver Constraint: (9.519mil < 10mil) Between Pad C1_BLE-1(1460mil,4956mil) on Top Layer And Pac
Minimum Solder Mask Sliver Constraint: (9.519mil < 10mil) Between Pad C17-1(1785.745mil,4972mil) on Bottom Layer And Pac
Minimum Solder Mask Sliver Constraint: (5.906mil < 10mil) Between Pad C30-1(2256mil,4126mil) on Top Layer And Pad C30-2(2222.376mil,4126mil)
Minimum Solder Mask Sliver Constraint: (5.906mil < 10mil) Between Pad C31-1(2254mil,4338.376mil) on Top Layer And Pad C31-2(2254mil,4372mil)
Minimum Solder Mask Sliver Constraint: (3.7mil < 10mil) Between Pad J1-1(2610mil,4743.1mil) on Top Layer And Pad J1-2(2610mil,4723.4mil) or
Minimum Solder Mask Sliver Constraint: (3.7mil < 10mil) Between Pad J1-10(2610mil,4565.8mil) on Top Layer And Pad J1-9(2610mil,4585.5mil) or
Minimum Solder Mask Sliver Constraint: (3.7mil < 10mil) Between Pad J1-2(2610mil,4723.4mil) on Top Layer And Pad J1-3(2610mil,4703.7mil) or
Minimum Solder Mask Sliver Constraint: (3.7mil < 10mil) Between Pad J1-3(2610mil,4703.7mil) on Top Layer And Pad J1-4(2610mil,4684mil) on Top
Minimum Solder Mask Sliver Constraint: (3.7mil < 10mil) Between Pad J1-4(2610mil,4684mil) on Top Layer And Pad J1-5(2610mil,4664.3mil) on Top
Minimum Solder Mask Sliver Constraint: (3.7mil < 10mil) Between Pad J1-5(2610mil,4664.3mil) on Top Layer And Pad J1-6(2610mil,4644.6mil) or
Minimum Solder Mask Sliver Constraint: (3.7mil < 10mil) Between Pad J1-6(2610mil,4644.6mil) on Top Layer And Pad J1-7(2610mil,4624.9mil) or
Minimum Solder Mask Sliver Constraint: (3.7mil < 10mil) Between Pad J1-7(2610mil,4624.9mil) on Top Layer And Pad J1-8(2610mil,4605.2mil) or
Minimum Solder Mask Sliver Constraint: (3.7mil < 10mil) Between Pad J1-8(2610mil,4605.2mil) on Top Layer And Pad J1-9(2610mil,4585.5mil) or
Minimum Solder Mask Sliver Constraint: (3.7mil < 10mil) Between Pad J2-1(2608mil,4561.85mil) on Bottom Layer And Pad J2-2(2608mil,4581.55mil)
Minimum Solder Mask Sliver Constraint: (3.7mil < 10mil) Between Pad J2-10(2608mil,4739.15mil) on Bottom Layer And Pad J2-9(2608mil,4719.45mil)
Minimum Solder Mask Sliver Constraint: (3.7mil < 10mil) Between Pad J2-2(2608mil,4581.55mil) on Bottom Layer And Pad J2-3(2608mil,4601.25mil)
Minimum Solder Mask Sliver Constraint: (3.7mil < 10mil) Between Pad J2-3(2608mil,4601.25mil) on Bottom Layer And Pad J2-4(2608mil,4620.95mil)
Minimum Solder Mask Sliver Constraint: (3.7mil < 10mil) Between Pad J2-4(2608mil,4620.95mil) on Bottom Layer And Pad J2-5(2608mil,4640.65mil)
Minimum Solder Mask Sliver Constraint: (3.7mil < 10mil) Between Pad J2-5(2608mil,4640.65mil) on Bottom Layer And Pad J2-6(2608mil,4660.35mil)
Minimum Solder Mask Sliver Constraint: (3.7mil < 10mil) Between Pad J2-6(2608mil,4660.35mil) on Bottom Layer And Pad J2-7(2608mil,4680.05mil)
Minimum Solder Mask Sliver Constraint: (3.7mil < 10mil) Between Pad J2-7(2608mil,4680.05mil) on Bottom Layer And Pad J2-8(2608mil,4699.75mil)
Minimum Solder Mask Sliver Constraint: (3.7mil < 10mil) Between Pad J2-8(2608mil,4699.75mil) on Bottom Layer And Pad J2-9(2608mil,4719.45mil)
Minimum Solder Mask Sliver Constraint: (3.811mil < 10mil) Between Pad J3-1(2345.095mil,3949.016mil) on Top Layer And Pac
Minimum Solder Mask Sliver Constraint: (3.811mil < 10mil) Between Pad J3-2(2313.599mil,3949.016mil) on Top Layer And Pac
Minimum Solder Mask Sliver Constraint: (3.811mil < 10mil) Between Pad J3-3(2282.102mil,3949.016mil) on Top Layer And Pac
Minimum Solder Mask Sliver Constraint: (3.811mil < 10mil) Between Pad J3-4(2250.606mil,3949.016mil) on Top Layer And Pac
Minimum Solder Mask Sliver Constraint: (6.083mil < 10mil) Between Pad L1_BLE-1(1422mil,5042.102mil) on Top Layer And Pac
Minimum Solder Mask Sliver Constraint: (1.843mil < 10mil) Between Pad R1-1(1994mil,3823.528mil) on Bottom Layer And Pad R1-2(1994mil,3794mil)
Minimum Solder Mask Sliver Constraint: (5.78mil < 10mil) Between Pad R2-1(1940mil,5157.748mil) on Top Layer And Pad R2-2(1940mil,5126.252mil)
Minimum Solder Mask Sliver Constraint: (1.843mil < 10mil) Between Pad R3-1(2558mil,3884.764mil) on Bottom Layer And Pac
Minimum Solder Mask Sliver Constraint: (1.843mil < 10mil) Between Pad R4-1(2560mil,3763.236mil) on Bottom Layer And Pac
Minimum Solder Mask Sliver Constraint: (1.843mil < 10mil) Between Pad R5-1(1988mil,3873.236mil) on Bottom Layer And Pac
Minimum Solder Mask Sliver Constraint: (1.843mil < 10mil) Between Pad R6-1(1992mil,3711.236mil) on Bottom Layer And Pac
Minimum Solder Mask Sliver Constraint: (5.78mil < 10mil) Between Pad R7-1(1990mil,3995.748mil) on Bottom Layer And Pac
Minimum Solder Mask Sliver Constraint: (5.78mil < 10mil) Between Pad R8-1(2046mil,4140mil) on Bottom Layer And Pad R8-2(2014.504mil,4140mil)
Minimum Solder Mask Sliver Constraint: (1.842mil < 10mil) Between Pad SD-1(2155.461mil,3664.91mil) on Bottom Layer And Pac
Minimum Solder Mask Sliver Constraint: (1.842mil < 10mil) Between Pad SD-12(2504.28mil,3678.689mil) on Bottom Layer And Pac
Minimum Solder Mask Sliver Constraint: (1.842mil < 10mil) Between Pad SD-2(2198.768mil,3664.91mil) on Bottom Layer And Pac
Minimum Solder Mask Sliver Constraint: (1.842mil < 10mil) Between Pad SD-3(2242.075mil,3664.91mil) on Bottom Layer And Pac
Minimum Solder Mask Sliver Constraint: (1.842mil < 10mil) Between Pad SD-4(2285.382mil,3664.91mil) on Bottom Layer And Pac
Minimum Solder Mask Sliver Constraint: (1.842mil < 10mil) Between Pad SD-5(2328.689mil,3664.91mil) on Bottom Layer And Pac
Minimum Solder Mask Sliver Constraint: (1.842mil < 10mil) Between Pad SD-6(2371.996mil,3664.91mil) on Bottom Layer And Pac
Minimum Solder Mask Sliver Constraint: (1.842mil < 10mil) Between Pad SD-7(2415.303mil,3664.91mil) on Bottom Layer And Pac

Silk to Silk (Clearance=10mil) (All),(All)
Silk To Silk Clearance Constraint: (2.886mil < 10mil) Between Arc (2614mil,4370.5mil) on Top Overlay And Text "TP9" (2583.342mil,4314.003mil) or
Silk To Silk Clearance Constraint: (1.631mil < 10mil) Between Text "C21" (1964.674mil,4918.003mil) on Top Overlay And Track
Silk To Silk Clearance Constraint: (9.755mil < 10mil) Between Text "C22" (2151.342mil,5105.573mil) on Top Overlay And Track
Silk To Silk Clearance Constraint: (6.861mil < 10mil) Between Text "C31" (2315.997mil,4334.674mil) on Top Overlay And Track
Silk To Silk Clearance Constraint: (Collision < 10mil) Between Text "IC2" (1451.008mil,5096.003mil) on Top Overlay And Text "L2_BLE"
Silk To Silk Clearance Constraint: (9.219mil < 10mil) Between Text "IC2" (1451.008mil,5096.003mil) on Top Overlay And Track
Silk To Silk Clearance Constraint: (Collision < 10mil) Between Text "L2_BLE" (1498.331mil,4983.352mil) on Top Overlay And Track
Silk To Silk Clearance Constraint: (3.102mil < 10mil) Between Text "LED" (1887.342mil,4354.003mil) on Top Overlay And Track
Silk To Silk Clearance Constraint: (6.952mil < 10mil) Between Text "TP1" (2461.833mil,4121.5mil) on Top Overlay And Track
Silk To Silk Clearance Constraint: (5.676mil < 10mil) Between Text "U1" (2468.671mil,4384.003mil) on Top Overlay And Track

Electrical Rules Check Report

[illegible]