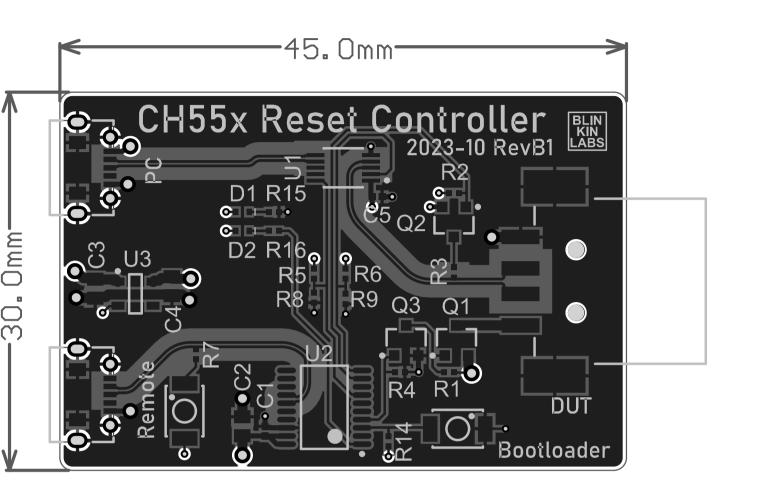


CH55x Reset Controller



Silkscreen: white / don't care Soldermask: green / don't care

Surface finish: ENIG

Copper weight: 1oz outer, 0.5oz inner

Layer	Name	Material	Thickness	Constant
	Top Overlay			
	Top Solder	SM-001	0.013mm	4
1	Top Layer	CF-004	0.035mm	
	Dielectric 2	PP-022	0.200mm	4.6
2	Layer 1	CF-004	0.015mm	
	Dielectric 3	Core-039	0.700mm	4.8
3	Layer 2	CF-004	0.015mm	
	Dielectric 4	PP-022	0.200mm	4.6
4	Bottom Layer	CF-004	0.035mm	
	Bottom Solder	SM-001	0.013mm	4
	Bottom Overlay			

Total board thickness:

1.226mm

Design Rules Verification ReportFilename: C:\Users\matt\Blinkinlabs-Repos\ch55x_programmer\pcb\PCB1.PcbDoc

Warnings 0 Rule Violations 62

Warnings	
Total	0

Rule Violations Clearance Constraint (Gap=0.2mm) (All),(All)	0
	01
Clearance Constraint (Gap=0.127mm)	0
Clearance Constraint (Gap=1mm) (InDifferentialPairClass('D90')),(InPolygon)	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=0.2mm) (Max=0.8mm) (Preferred=0.4mm) (All)	0
Power Plane Connect Rule(Relief Connect)(Expansion=0.508mm) (Conductor	0
Moder Self-American (Min=0.025mm) (Max=2.54mm) (All)	0
Hole To Hole Clearance (Gap=0.254mm) (All),(All)	0
Minimum Solder Mask Sliver (Gap=0.254mm) (All),(All)	39
Silk To Solder Mask (Clearance=0.254mm) (IsPad),(All)	9
Silk to Silk (Clearance=0.254mm) (All),(All)	5
Net Antennae (Tolerance=0mm) (All)	0
Board Clearance Constraint (Gap=0mm) (All)	9
Room Sheet1 (Bounding Region = (120.775mm, 77.5mm, 184mm, 122.5mm)	0
Height Constraint (Min=0mm) (Max=25.4mm) (Prefered=12.7mm) (All)	0
Total	62

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Minimum Solder Mask Sliver (Gap=0.254mm) (All),(All) Minimum Solder Mask Sliver Constraint: (0.017mm < 0.254mm) Between Pad C1-1(16.3mm,2.71mm) on Top Layer And Mandmum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad C4-1(8.9mm,15.35mm) on Top Layer And Maymum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad C4-2(8.9mm,13.85mm) on Top Laver And Maymum Solder Mask Sliver Constraint: (0.176mm < 0.254mm) Between Pad C4-2(8.9mm,13.85mm) on Top Layer And Mandmum Solder Mask Sliver Constraint: (0.017mm < 0.254mm) Between Pad C5-1(24.81mm,21.7mm) on Top Layer And Maymum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad J1-D-(4mm,24.65mm) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad J1-D-(4mm,24.65mm) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad J1-D+(4mm,24mm) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad J1-GND(4mm,22.7mm) on Top Layer And Maymum Solder Mask Sliver Constraint: (0.122mm < 0.254mm) Between Pad J1-GND(4mm,22.7mm) on Top Layer And Maymum Solder Mask Sliver Constraint: (0.122mm < 0.254mm) Between Pad J1-S4(4mm,26.425mm) on Multi-Layer And Maymum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad J3-D-(4mm,6.65mm) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad J3-D-(4mm,6.65mm) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad J3-D+(4mm,6mm) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (0.047mm < 0.254mm) Between Pad J3-GND(4mm,4.7mm) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (0.122mm < 0.254mm) Between Pad J3-GND(4mm,4.7mm) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (0.122mm < 0.254mm) Between Pad J3-S4(4mm,8.425mm) on Multi-Layer And Mandmum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad R1-1(30.5mm,7.8mm) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad R14-1(26.1mm,2.7mm) on Top Layer And Maymum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad R15-1(16.6mm,20.5mm) on Top Layer And ক্লিপmum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad R16-1(16.6mm,19mm) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad R2-1(31.7mm,22mm) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad R3-1(31.3mm,15.3mm) on Top Layer And Mandmum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad R4-1(27.4mm,7.8mm) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad R5-1(20.2mm,15.2mm) on Top Layer And Maymum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad R6-1(22.7mm,15.2mm) on Top Layer And Mandmum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad R7-1(10.8mm,9.6mm) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad R8-1(20,2mm,13,3mm) on Top Layer And Maymum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad R9-1(22.7mm,13.2mm) on Top Layer And Maymum Solder Mask Sliver Constraint: (0.2mm < 0.254mm) Between Pad U1-1(24.7mm,23mm) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (0.2mm < 0.254mm) Between Pad U1-10(20.3mm,23mm) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (0.2mm < 0.254mm) Between Pad U1-2(24.7mm,23.5mm) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (0.2mm < 0.254mm) Between Pad U1-3(24.7mm,24mm) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (0,2mm < 0,254mm) Between Pad U1-4(24,7mm,24,5mm) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (0.2mm < 0.254mm) Between Pad U1-6(20.3mm,25mm) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (0.2mm < 0.254mm) Between Pad U1-7(20.3mm,24.5mm) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (0.2mm < 0.254mm) Between Pad U1-8(20.3mm,24mm) on Top Layer And Pad Minimum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad U3-1(4.6mm,14.95mm) on Top Layer And Maymum Solder Mask Sliver Constraint: (0.147mm < 0.254mm) Between Pad U3-2(4.6mm,14mm) on Top Layer And Pad

Silk To Solder Mask (Clearance=0.254mm) (IsPad),(All)

Silk To Solder Mask Clearance Constraint: (0.25mm < 0.254mm) Between Arc (32.7mm,4.3mm) on Top Overlay And Pac Silk To Solder Mask Clearance Constraint: (0.25mm < 0.254mm) Between Arc (8.9mm,5.8mm) on Top Overlay And Pac Silk To Solder Mask Clearance Constraint: (0.225mm < 0.254mm) Between Pad D1-2(15.025mm,20.5mm) on Top Layer Anc Silk To Solder Mask Clearance Constraint: (0.225mm < 0.254mm) Between Pad D2-2(15.025mm,19mm) on Top Layer Anc Silk To Solder Mask Clearance Constraint: (0.175mm < 0.254mm) Between Pad J2-5(39.3mm,22.5mm) on Top Layer Anc Silk To Solder Mask Clearance Constraint: (0.175mm < 0.254mm) Between Pad J2-6(39.3mm,7.5mm) on Top Layer Anc Silk To Solder Mask Clearance Constraint: (0.242mm < 0.254mm) Between Pad R9-1(22.7mm,13.2mm) on Top Layer Anc Silk To Solder Mask Clearance Constraint: (0.242mm < 0.254mm) Between Pad R9-2(22.7mm,14mm) on Top Layer And Silk To Solder Mask Clearance Constraint: (0.253mm < 0.254mm) Between Pad U1-10(20.3mm,23mm) on Top Layer Anc

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

Silk To Silk Clearance Constraint: (0.108mm < 0.254mm) Between Text "BLIN

KIN

LABS" (40.4mm,25.4mm) on Top Overlay And Track (40.4mm,25.4mm)(40.4mm,28.4mm) on Top Ove

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

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

KIN

LABS" (40.4mm,25.4mm) on Top Overlay And Track (40.4mm,25.4mm)(43.4mm,25.4mm) on Top Ove

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

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

KIN

LABS" (40.4mm,25.4mm) on Top Overlay And Track (40.4mm,28.4mm)(43.4mm,28.4mm) on Top Ove

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

Silk To Silk Clearance Constraint: (0.108mm < 0.254mm) Between Text "BLIN

KIN

LABS" (40.4mm,25.4mm) on Top Overlay And Track (43.4mm,25.4mm)(43.4mm,28.4mm) on Top Ove

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

Silk To Silk Clearance Constraint: (0.247mm < 0.254mm) Between Text "U2" (19.575mm,8.669mm) on Top Overlay And Track

Board Clearance Constraint (Gap=0mm) (All)

Board Outline Clearance(Outline Edge): (Collision < 0.1mm) Between Board Edge And Track

Board Outline Clearance(Outline Edge): (Collision < 0.1mm) Between Board Edge And Track

Board Outline Clearance(Outline Edge): (Collision < 0.1mm) Between Board Edge And Track

Board Outline Clearance(Outline Edge): (Collision < 0.1mm) Between Board Edge And Track

Board Outline Clearance(Outline Edge): (Collision < 0.1mm) Between Board Edge And Track Board Outline Clearance(Outline Edge): (Collision < 0.1mm) Between Board Edge And Track

Board Outline Clearance(Outline Edge): (Collision < 0.1mm) Between Board Edge And Track

Board Outline Clearance(Outline Edge): (Collision < 0.1mm) Between Board Edge And Track

Board Outline Clearance(Outline Edge): (Collision < 0.1mm) Between Board Edge And Track

Electrical Rules Check Report

Class	Document	Message
Warning	Sheet1.SchDoc	Net O\E\ has no driving source (Pin R5-1, Pin R8-2, Pin U1-10, Pin U2-7)
Warning	Sheet1.SchDoc	Un-Designated Part L?

