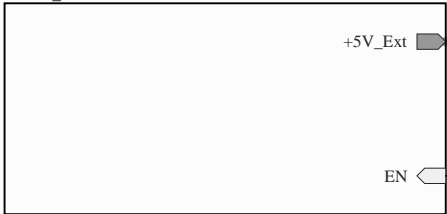
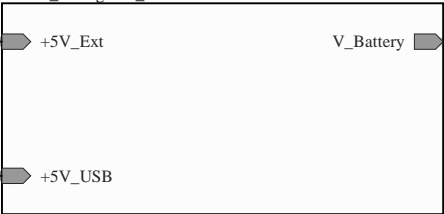
		<b>Endereço:</b> Rua Aprígio Veloso, 1500 - Bodocongó CEP: 58.429-140 Campina Grande, Paraíba Brasil	
<b>Título:</b> Fonte Padrão IoT			
<b>Projeto:</b> Virtus CC			
<b>Conta:</b> Virtus CC		1° Contrato	
<b>Projetista:</b> Pedro Lucas Rodrigues		<b>Revisor:</b> Fulano de tal	
<b>Arquivo:</b> Sheet1_Diagrama.SchDoc			<b>Pág.:</b> 1 de 7
<b>Data:</b> 04/12/2024			<b>Rev.:</b> v.0.1

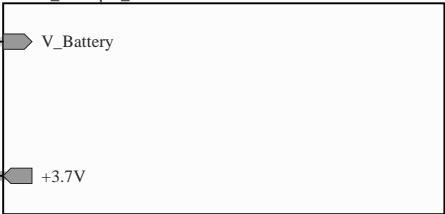
Sheet3\_Buck.SchDoc



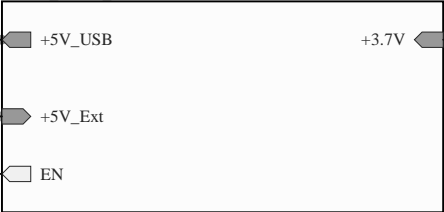
Sheet4\_Carregador\_Bateria.SchDoc



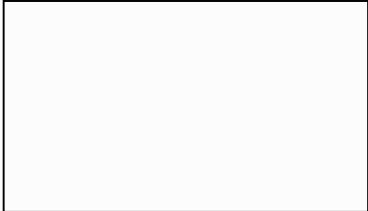
Sheet5\_Proteção\_Bateria.SchDoc




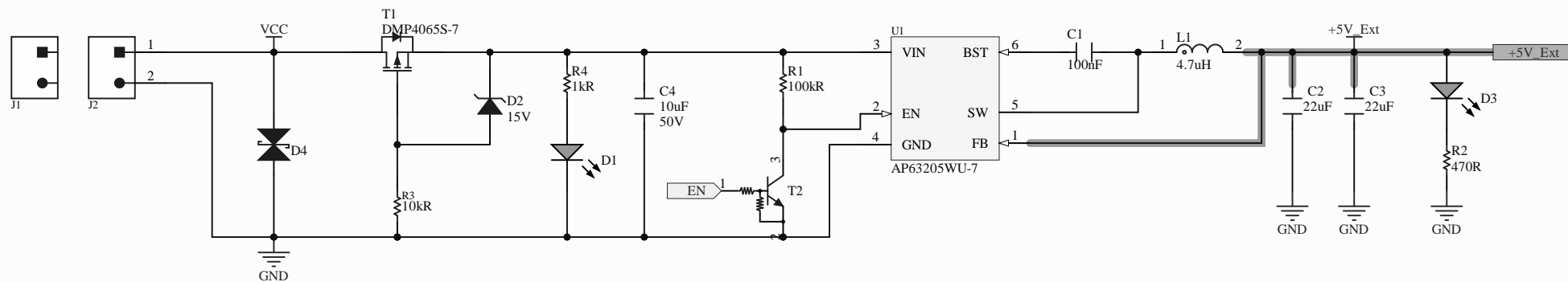
Sheet6\_Power\_Path.SchDoc




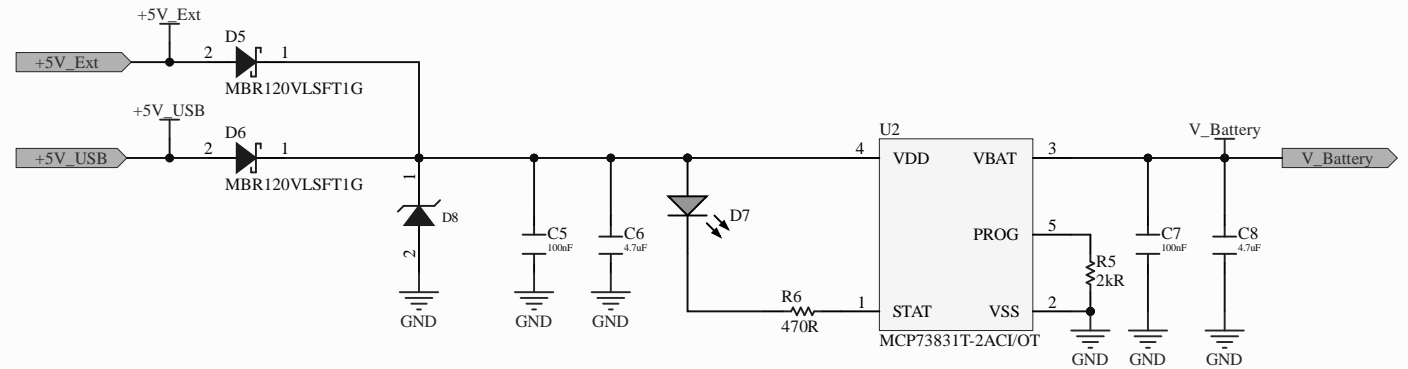
Sheet7\_Mecânica.SchDoc



		<b>Endereço:</b> Rua Aprígio Veloso, 1500 - Bodocongó CEP: 58.429-140 Campina Grande, Paraíba Brasil	
<b>Título:</b> Fonte Padrão IoT			
<b>Projeto:</b> Virtus CC			
<b>Conta:</b> Virtus CC		1º Contrato	
<b>Projetista:</b> Pedro Lucas Rodrigues		<b>Revisor:</b> Fulano de tal	
<b>Arquivo:</b> Sheet2_Hierarquia.SchDoc			<b>Pág.:</b> 2 de 7
<b>Data:</b> 04/12/2024			<b>Rev.:</b> v.0.1

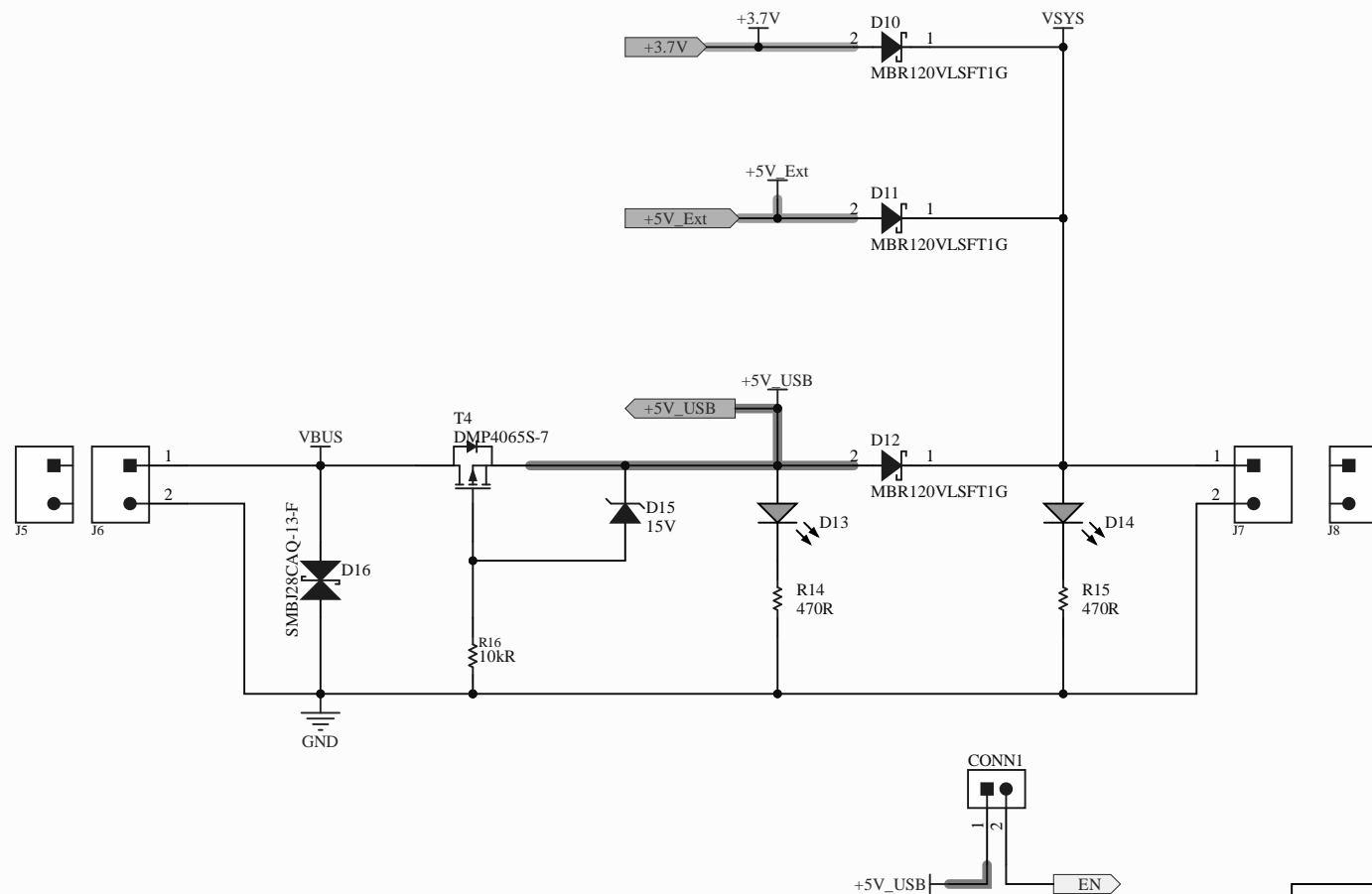



 <b>VIRTUS CC</b>		<b>Endereço:</b> Rua Aprígio Veloso, 1500 - Bodocongó CEP: 58.429-140 Campina Grande, Paraíba Brasil	
<b>Título:</b> Fonte Padrão IoT			
<b>Projeto:</b> Virtus CC			
<b>Conta:</b> Virtus CC		<b>1º Contrato</b>	
<b>Projetista:</b> Pedro Lucas Rodrigues		<b>Revisor:</b> Fulano de tal	
<b>Arquivo:</b> Sheet3_Buck.SchDoc			<b>Pág.: 3 de 7</b>
<b>Data:</b> 04/12/2024			<b>Rev.: v.0.1</b>



		<b>Endereço:</b> Rua Aprígio Veloso, 1500 - Bodocongó CEP: 58.429-140 Campina Grande, Paraíba Brasil	
<b>Título:</b> Fonte Padrão IoT			
<b>Projeto:</b> Virtus CC			
<b>Conta:</b> Virtus CC		1° Contrato	
<b>Projetista:</b> Pedro Lucas Rodrigues		<b>Revisor:</b> Fulano de tal	
<b>Arquivo:</b> Sheet4_Carregador_Bateria.SchDoc			<b>Pág.:</b> 4 de 7
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		<b>Endereço:</b> Rua Aprígio Veloso, 1500 - Bodocongó CEP: 58.429-140 Campina Grande, Paraíba Brasil	
<b>Título:</b> Fonte Padrão IoT			
<b>Projeto:</b> Virtus CC			
<b>Conta:</b> Virtus CC		1º Contrato	
<b>Projetista:</b> Pedro Lucas Rodrigues		<b>Revisor:</b> Fulano de tal	
<b>Arquivo:</b> Sheet6_Power_Path.SchDoc			<b>Pág.:</b> 6 de 7
<b>Data:</b> 04/12/2024			<b>Rev.:</b> v.0.1



LG1



SCREW\_M3



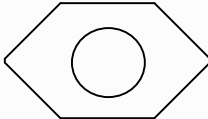
SCREW\_M3



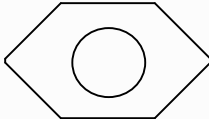
SCREW\_M3



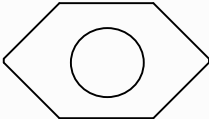
SCREW\_M3



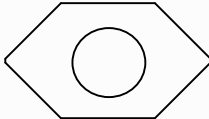
STF1



STF2




STF3



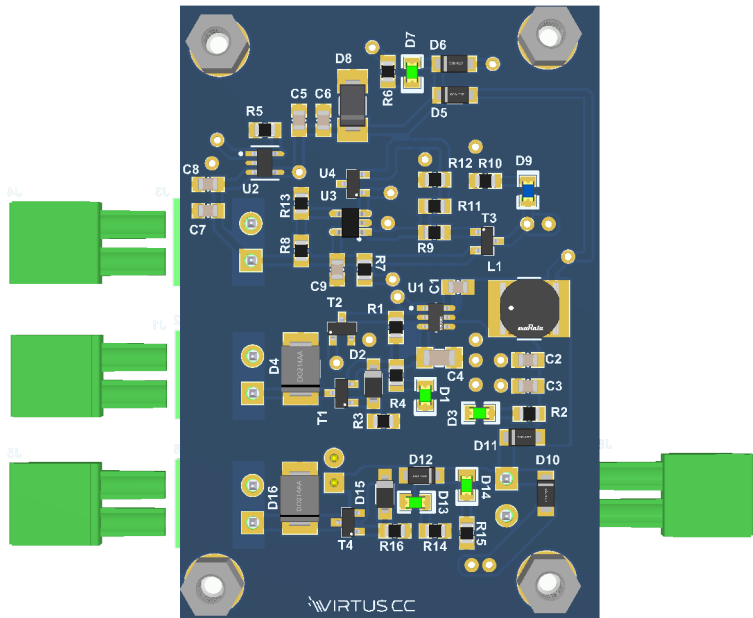
STF4



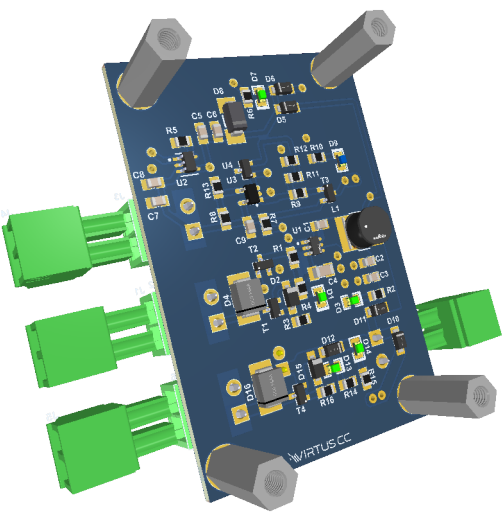
LG2

		<b>Endereço:</b> Rua Aprígio Veloso, 1500 - Bodocongó CEP: 58.429-140 Campina Grande, Paraíba Brasil	
<b>Título:</b> Fonte Padrão IoT			
<b>Projeto:</b> Virtus CC			
<b>Conta:</b> Virtus CC		<b>1º Contrato</b>	
<b>Projetista:</b> Pedro Lucas Rodrigues		<b>Revisor:</b> Fulano de tal	
<b>Arquivo:</b> Sheet7_Mecânica.SchDoc		<b>Pág.:</b> 7 de 7	
<b>Data:</b> 04/12/2024		<b>Rev.:</b> v.0.1	

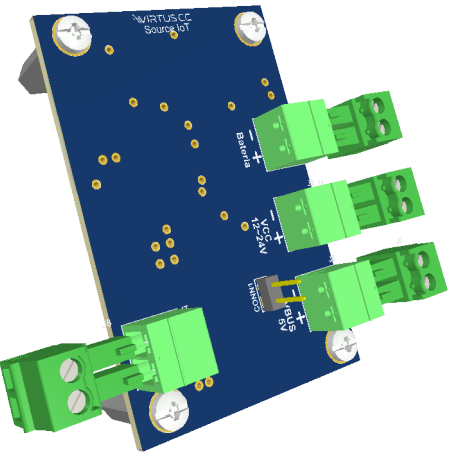
Realistic View



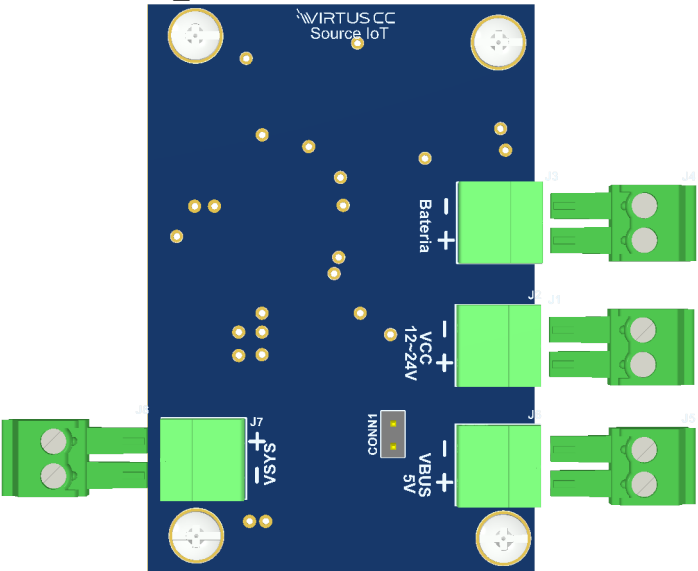
Realistic View




Realistic View\_Bottom



Realistic View\_Bottom



		<b>Endereço:</b> Rua Aprígio Veloso, 1500 - Bodocongó CEP: 58.429-140 Campina Grande, Paraíba Brasil	
<b>Título:</b> Fonte Padrão IoT			
<b>Projeto:</b> Virtus CC			
<b>Conta:</b> Virtus CC		1º Contrato	
<b>Projetista:</b> Pedro Lucas Rodrigues		<b>Revisor:</b> Fulano de tal	
<b>Arquivo:</b> Draftsman.PCBDwf		<b>Pág.:</b> 1 de 8	
<b>Data:</b> 04/12/2024		<b>Rev.:</b> v.0.1	

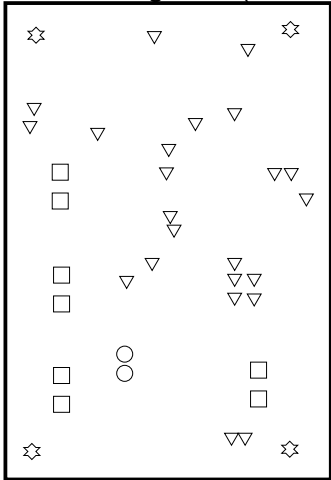


Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
Surface Material	Top Solder	0.03mm	SM-003	Solder Mask	GTS
Copper	Top Layer	0.04mm		Signal	GTL
		1.50mm	FR-4	Dielectric	
Copper	Bottom Layer	0.04mm		Signal	GBL
Surface Material	Bottom Solder	0.03mm	SM-003	Solder Mask	GBS
	Bottom Overlay			Legend	GBO

Total thickness: 1.62mm

Drill Drawing View (Scale 1:1)



Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
▽	23	0.71mm	Plated	
○	2	0.90mm	Plated	
□	8	1.40mm	Plated	
☆	4	3.20mm	Plated	
	37 Total			



Endereço:  
Rua Aprígio Veloso, 1500 - Bodocongó  
CEP: 58.429-140  
Campina Grande, Paraíba  
Brasil

Título: Fonte Padrão IoT

Projeto: Virtus CC

Conta: Virtus CC

1° Contrato

Projetista: Pedro Lucas Rodrigues

Revisor: Fulano de tal

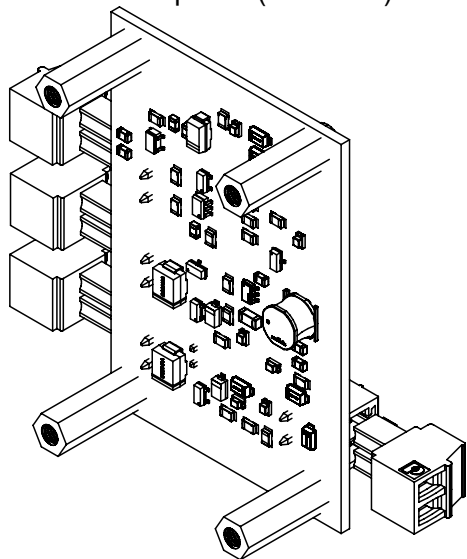
Arquivo: Draftsman.PCBDwf

Pág.: 2 de 8

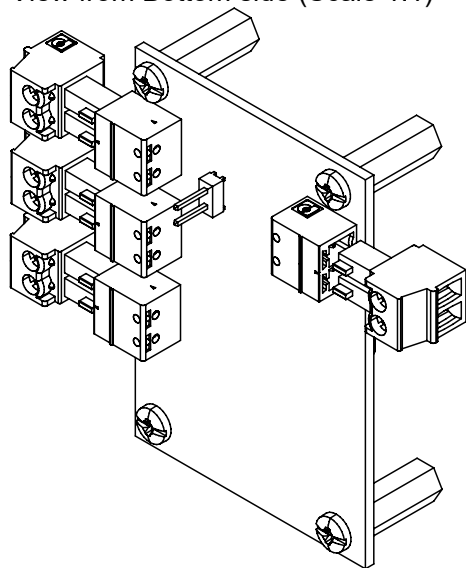
Data: 04/12/2024

Rev.: v.0.1

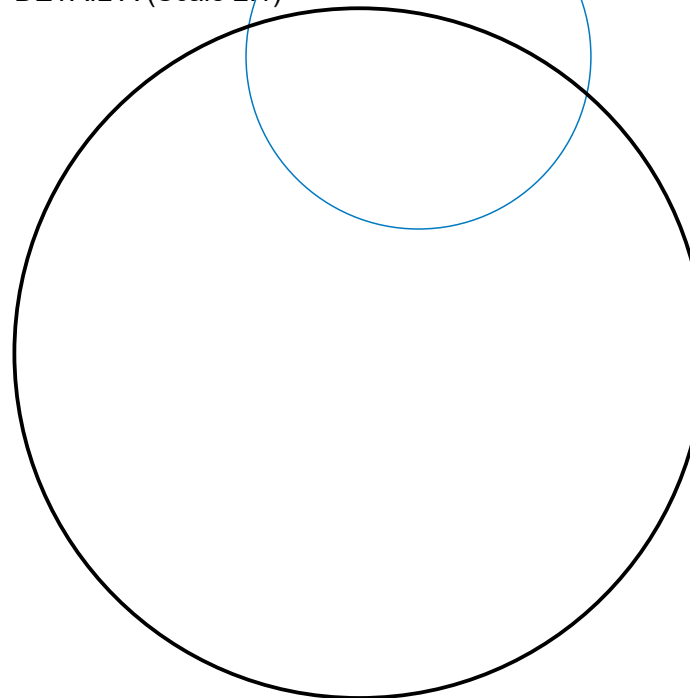
View from Top side (Scale 1:1)



View from Bottom side (Scale 1:1)



DETAIL A (Scale 2:1)



DETAIL A (Scale 1:1)



**Endereço:**  
Rua Aprígio Veloso, 1500 - Bodocongó  
CEP: 58.429-140  
Campina Grande, Paraíba  
Brasil

**Título:** Fonte Padrão IoT

**Projeto:** Virtus CC

**Conta:** Virtus CC

1° Contrato

**Projetista:** Pedro Lucas Rodrigues

**Revisor:** Fulano de tal

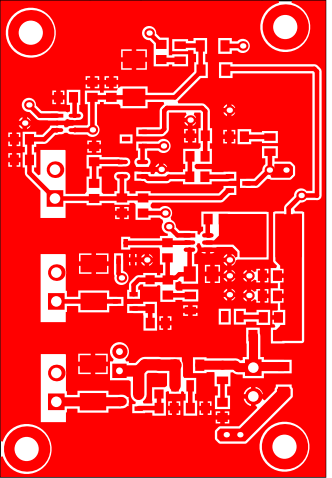
**Arquivo:** Draftsman.PCBDwf

**Pág.:** 3 de 8

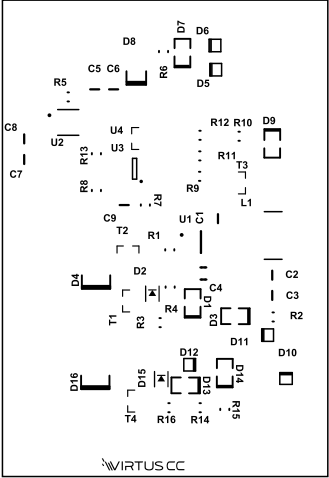
**Data:** 04/12/2024

**Rev.:** v.0.1

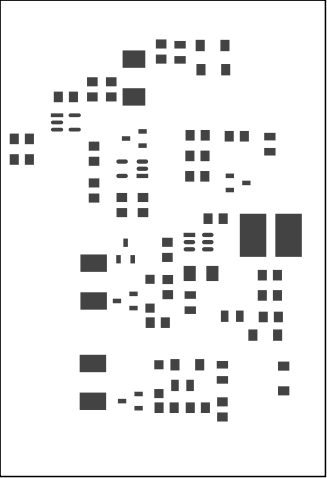
Top Layer (Scale 1:1)[Top]



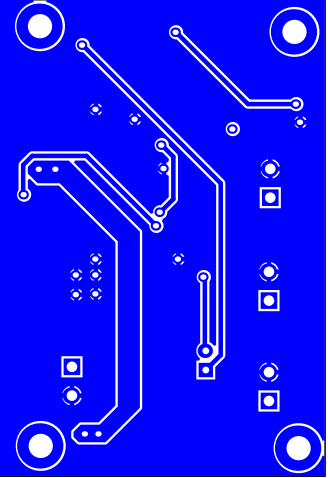
Top Overlay (Scale 1:1)[Top]



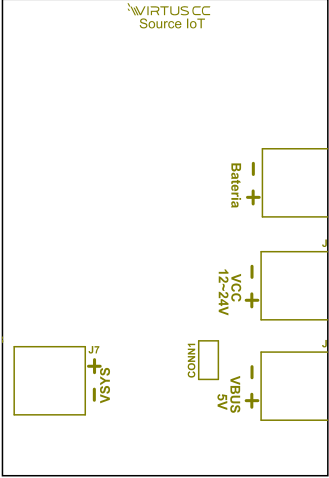
Top Paste (Scale 1:1)[Top]



Bottom Layer (Scale 1:1)[Bottom]



Bottom Overlay (Scale 1:1)[Bottom]



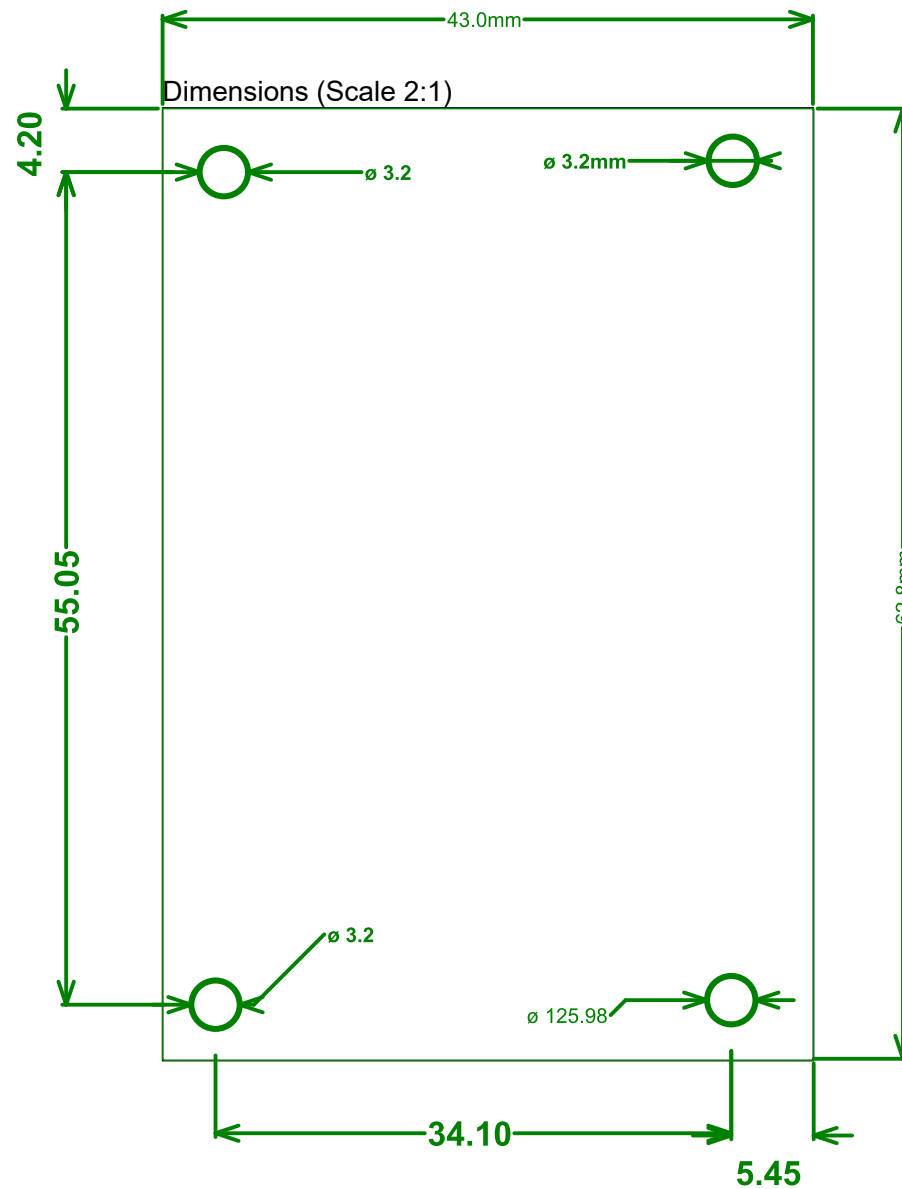
		<b>Endereço:</b> Rua Aprígio Veloso, 1500 - Bodocongó CEP: 58.429-140 Campina Grande, Paraíba Brasil	
<b>Título:</b> Fonte Padrão IoT			
<b>Projeto:</b> Virtus CC			
<b>Conta:</b> Virtus CC		<b>1° Contrato</b>	
<b>Projetista:</b> Pedro Lucas Rodrigues		<b>Revisor:</b> Fulano de tal	
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A

B

C

D



**Endereço:**  
Rua Aprígio Veloso, 1500 - Bodocongó  
CEP: 58.429-140  
Campina Grande, Paraíba  
Brasil

**Título:** Fonte Padrão IoT

**Projeto:** Virtus CC

**Conta:** Virtus CC

1° Contrato

**Projetista:** Pedro Lucas Rodrigues

**Revisor:** Fulano de tal

**Arquivo:** Draftsman.PCBDwf

**Pág.:** 5 de 8

**Data:** 04/12/2024

**Rev.:** v.0.1

A

B

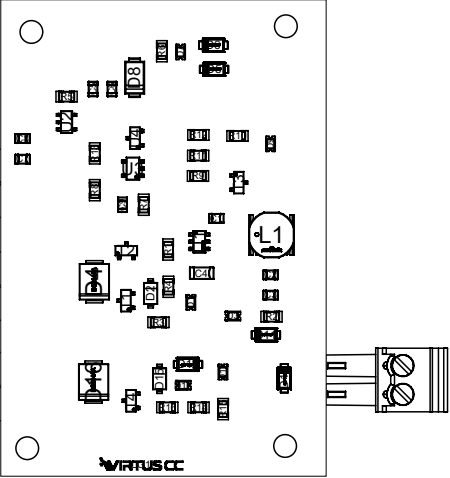
C

D

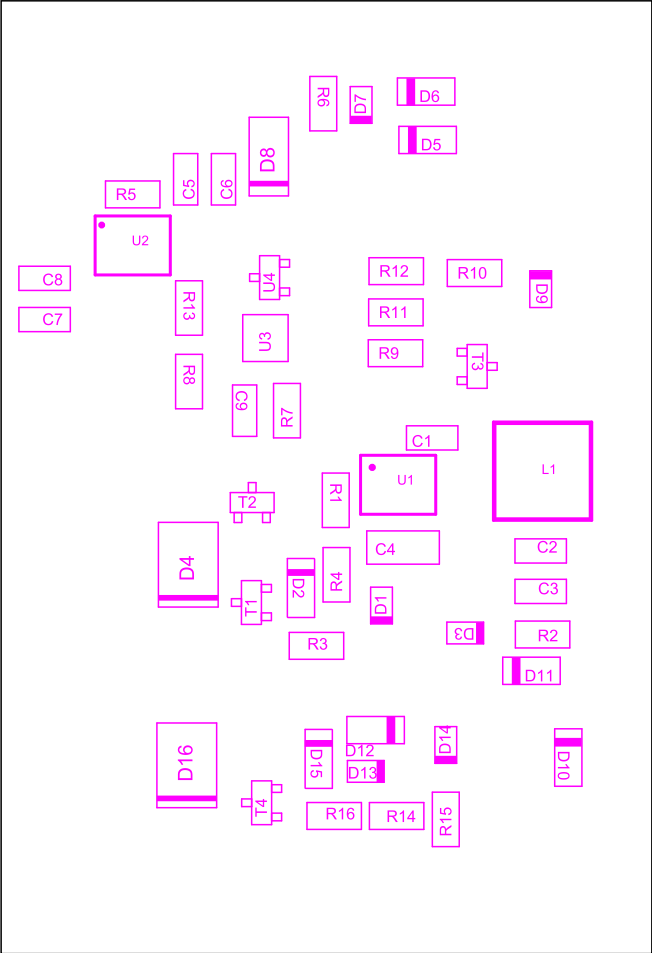
Bill Of Materials

Line #	Designator	Comment	Quantity
1	C1, C5, C7, C9	CL21B104KACNNNC	4
2	C2, C3	CL21A226MAYNNNE	2
3	C4	CL31A106KBHNNNE	1
4	C6, C8	C2012X5R1E475K125AB	2
6	D1, D3, D7, D13, D14	LTST-C170GKT	5
7	D2, D15	MMSZ5245B-TP	2
8	D4	SMBJ28CAQ-13-F	1
9	D5, D6, D10, D11, D12	MBR120VLSFT1G	5
10	D8	SMAJ5.0A-13-F	1
11	D9	LTST-C171TBKT	1
12	D16	SMBJ28CAQ-13-F	1
15	L1	1255AY-4R7M=P3	1
16	LG1	Logo_Virtus	1
17	R1, R8	CRGCQ0805F100K	2
18	R2, R6, R10, R14, R15	CRGCQ0805J470R	5
19	R3, R7, R16	RC0805FR-0710KL	3
20	R4	RC0805FR-071KL	1
21	R5	ERJ-6ENF2001V	1
22	R9	RC0805FR-071ML	1
23	R11	RC0805FR-07270KL	1
24	R12	RC0805FR-0716KL	1
25	R13	RC0805FR-13330KL	1
28	T1, T4	DMP4065S-7	2
29	T2	DDTC143ZCA-7-F	1
30	T3	PJA3415_R1_00001	1
31	U1	AP63205WU-7	1
32	U2	MCP73831T-2ACI/OT	1
33	U3	TLV7031QDBVRQ1	1
34	U4	LM4041DYM3-1.2-TR	1

View from Top side (Scale 1:1)



Top Assembly (Scale 2:1)



		<b>Endereço:</b> Rua Aprígio Veloso, 1500 - Bodocongó CEP: 58.429-140 Campina Grande, Paraíba Brasil	
<b>Título:</b> Fonte Padrão IoT			
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<b>Conta:</b> Virtus CC		1º Contrato	
<b>Projetista:</b> Pedro Lucas Rodrigues		<b>Revisor:</b> Fulano de tal	
<b>Arquivo:</b> Draftsman.PCBDwf			<b>Pág.:</b> 6 <b>de</b> 8
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A

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		<b>Endereço:</b> Rua Aprígio Veloso, 1500 - Bodocongó CEP: 58.429-140 Campina Grande, Paraíba Brasil	
<b>Título:</b> Fonte Padrão IoT			
<b>Projeto:</b> Virtus CC			
<b>Conta:</b> Virtus CC		1º Contrato	
<b>Projetista:</b> Pedro Lucas Rodrigues		<b>Revisor:</b> Fulano de tal	
<b>Arquivo:</b> Draftsman.PCBDwf			<b>Pág.:</b> 8 <b>de</b> 8
<b>Data:</b> 04/12/2024			<b>Rev.:</b> v.0.1

A

B

C

D





## Design Rules Verification Report

Filename : C:\Users\lucas\OneDrive\Documentos\Projeto\_PCB\PCB\_Project\_IoT\_PCB\IoT

Warnings 0  
Rule Violations 1

Warnings	
Total	0

Rule Violations	
Clearance Constraint (Gap=0.3mm) (All),(All)	0
Short-Circuit Constraint (Allowed=No) (All),(All)	0
Un-Routed Net Constraint ( All )	1
Modified Polygon (Allow modified: No), (Allow shelved: No)	0
Width Constraint (Min=0.3mm) (Max=2mm) (Preferred=0.6mm) (All)	0
Routing Topology Rule(Topology=Shortest) (All)	0
Power Plane Connect Rule(Relief Connect )(Expansion=0.508mm) (Conductor Width=0.254mm) (Air Gap=0.254mm)	0
Hole Size Constraint (Min=0.5mm) (Max=3.2mm) (All)	0
Hole To Hole Clearance (Gap=0.254mm) (All),(All)	0
Minimum Solder Mask Sliver (Gap=0.1mm) (All),(All)	0
Silk To Solder Mask (Clearance=0.1mm) (IsPad),(All)	0
Silk to Silk (Clearance=0.1mm) (All),(All)	0
Net Antennae (Tolerance=0mm) (All)	0
Height Constraint (Min=0mm) (Max=25.4mm) (Preferred=12.7mm) (All)	0
Total	1

Un-Routed Net Constraint ( All )	
Un-Routed Net Constraint: Net +5V_Ext Between Track (29.65mm,21.15mm)(29.675mm,21.125mm) on Top Layer And Pad	

