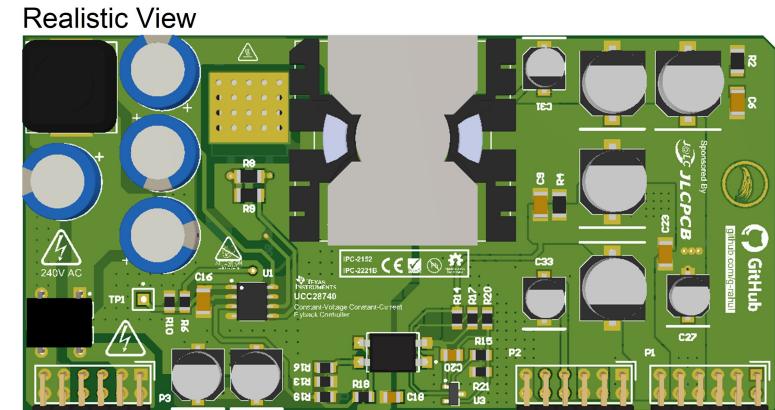


Layer Stack Legend

	Material	Layer	Thickness	Dielectric Material	Type	Gerber
1		Top Overlay			Legend	GTO
	Surface Material	Top Solder	0.03mm	SM-001	Solder Mask	GTS
	Copper	Top Layer	0.04mm		Signal	GTL
			1.53mm	FR-4		Dielectric
2						
	Copper	Bottom Layer	0.04mm		Signal	GBL
	Surface Material	Bottom Solder	0.03mm	SM-001	Solder Mask	GBS
		Bottom Overlay			Legend	GBO
	Total thickness: 1.65mm					

Drill Table

Symbol	Count	Hole Size	Plated	Hole Type	Via / Pad
∅	230	0.30mm(12mil)	Plated	Round	Via
⌘	15	0.40mm(16mil)	Plated	Round	(Mixed)
◆	11	0.50mm(20mil)	Plated	Round	Via
△	8	0.70mm(28mil)	Plated	Round	Pad
◇	2	0.71mm(28mil)	Plated	Round	Via
✳	20	0.76mm(30mil)	Plated	Round	Pad
○	41	0.90mm(35mil)	Plated	Round	Pad
□	12	1.00mm(39mil)	Plated	Round	Pad
339 Total					



	Organization : Team Garuda
	Author : Rahul G
	Institute : RV College Of Engineering
Date Modified:12/19/2020	Dim: 100.00mm x 50.00mm
Project Website : https://github.com/g-rahul/5KW_OBC	Rev:
	Unit: Millimeters

Bill Of Materials

Line #	Designator	Comment	Quantity
1	C1, C2, C3, C4	400V	4
2	C5, C6, C9	Cap_1206	3
3	C7, C8, C10, C11	100uF	4
4	C15, C17	47uF	2
5	C16, C28, C32, C34	Cap_1206	4
6	C18, C19, C20, C21, C24, C36	Cap_0805	6
7	C23	Cap_1206	1
8	C27, C31, C33	EEEFP1E220AR	3
9	D1	DF10M	1
10	D2, D5	STPS3030C6	2
11	D3	SMBJ33A	1
12	D4, D6	SS36-E3/57T	2
13	D8, D9, D10, D11, D12, D13	B360A-13-F	6
14	L1	CDRH127NP-100MC	1
15	L2	5.6uH	1
16	P1, P2, P3	Header 6X2H	3
17	Q1	NMOS-2	1
18	R1, R3	Res_1206	2
19	R2, R4, R8	Res_1206	3
20	R5	Res_1206	1
21	R6, R22, R26, R30	Res_0805	4
22	R9	Res_1206	1

Bill Of Materials

Line #	Designator	Comment	Quantity
23	R10	Res_0805	1
24	R11	Res_2512	1
25	R12	Res_1206	1
26	R13	Res_0805	1
27	R14, R17	Res_0805	2
28	R15	Res_0805	1
29	R16	Res_0805	1
30	R18	Res_0805	1
31	R19	Res_0805	1
32	R20	Res_0805	1
33	R21	Res_0805	1
34	R24	Res_0805	1
35	R28	Res_0805	1
36	T1	PQ2620_AB	1
37	TP1	Test Point	1
38	U1	UCC28740-Q1	1
39	U2	PC817	1
40	U3	TL431ACDBZR	1
41	U4	TPS56339DDCR	1

Organization : Team Garuda

Author : Rahul G

Institute : RV College Of Engineering

Date Modified:12/19/2020 Dim: 100.00mm x 50.00mm Scale: 1:1

Project Website : https://github.com/g-rahul/5KW_OBC

Rev:

Unit:
Millimeters