











Item#	mn Name Error:Manufad #Column Name Error:Manufacturer No Quantity	#Column Name Error:Note	Designator	Description	Footprint	Comment	LibRef
1	4 2		D1, D2, D3, D4 D13, D14	VS-4ESH02HM3 Typical RED, GREEN, YELLOW, AMBER GaAs LED	TO-277A 3.2X1.6X1.1	Diode LED2	Diode LED2
3	1		SW1	Switch	Push Button _New	PB- K5A2 4N AU	SW-PB
5	4 1		R15, R16, R18, R19 Not1	snubber_res_film SN74LVC1G04-EP	Res_Snub Inverter	res_snubber SN74LVC1G04-EP	res_snubber Inverter
6	75		FB9, FB10, FB11, FB12, FB13, FB14, FB15, R1, R2,	smd_res	res_smd	res_smd	res_smd
			R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14,				
			R17, R20, R41, R42, R43, R44, R45, R46, R47, R48.				
			R49, R50, R51, R52, R53, R54, R55, R56, R57, R58.				
			R59, R60, R61, R62, R63,				
			R64, R65, R66, R67, R68, R69, R70, R71, R72, R73,				
			R74, R75, R76, R77, R78, R79, R80, R81, R82, R83,				
			R84, Rdis1, Rdis2, Rdis3, Rdis4, Rdis5, Rdis6, Rdis7,				
7	2		Rdis8 R25, R30	Resistor	J1-0603	20	Res3
8	26		FB1, FB2, FB3, FB4, FB5,	Resistor	J1-0603	Res3	Res3
			FB6, FB7, FB8, R21, R22, R23, R24, R26, R27, R28,				
			R29, R31, R32, R33, R34, R35, R36, R37, R38, R39,				
9	3		R40 U4, U5, U6	Positive Voltage Regulator	Reg SOT-89 +5	L78L05ABUTR	L78L05ABZ
10	1 11		C58 C20, C21, C22, C23, C30.	Polarized Capacitor (Surface Mount) Polarized Capacitor (Surface Mount)	1812 1812	16V Cap Pol3	Cap Pol3 Cap Pol3
"			C31, C32, C33, C59, C63, C64	, , , , , , , , , , , , , , , , , , , ,			
12	13		C62, C67, C69, C70, C71,	Polarized Capacitor (Surface Mount)	C0805	Cap Pol3	Cap Pol3
			C73, C78, C84, C85, C86, C87, C89, C91				
13 14	1 2		C103 C102, C108	Polarized Capacitor (Radial) Polarized Capacitor (Radial)	CAP-10u-16V Cap tantal 22u-25V	electrolytic Tantalium	Cap Pol1 Cap Pol1
15 16	4 8		C98, C99, C104, C106 D5, D6, D7, D8, D9, D10,	Polarized Capacitor (Radial) PMEG2010EPK	Cap Tantal 3216 PMEG2010EPK	Tantalium/T520A226M006ATE090 PMEG2010EPK	Cap Pol1 PMEG2010EPK
17			D11, D12	Negative-Voltage Regulator	Reg SOT-89	L79L05ABUTR	μΑ79M05CKTPR
18	3		DZ1, DZ2, DZ3	MMSZS221BS MAX942ESA+	MMSZ5221BS	MMSZ5221BS	MMSZ5221BS Max942
19 20	2		Max1, Max2 U3	Low-Noise JFET-Input Operational Amplifier	SOIC 8_ no EP DIP14	Comparator MAX942 TL074CN	TL074J
21 22	4 1		C1, C2, C8, C9 P2	LLS2A332MELC Header, 16-Pin, Dual row	Cap_3300uF_35mm height HDR2X16	Signals to DSP	3300uF Header 16X2
23 24	1 1		P1 P3	Header, 15-Pin, Dual row Header, 5-Pin, Dual row	HDR2X15 HDR2X5	Signals from DSP Header 5X2	Header 15X2 Header 5X2
25 26	1 14		3 ZD1, ZD2, ZD3, ZD4, ZD5,	GAIN 20 DZ23C8V2-7-F	INA240 Zener Diode	INA240A1 8.2 v	ina240 Zener_diode
			ZD6, ZD7, ZD8, ZD9, ZD10, ZD11, ZD12, ZD13, ZD14				
27	2		CM1, CM2	Common mode choke	CMC-08	CMC-08	CMC-08
28 29	11		Latch1, Latch2 C60, C74, C79, C82, C83,	CD4043BDR Capacitor (Semiconductor SIM Model)	SR latch C1206	SR NOR Latch 16V	SR Latch Cap Semi
			C88, C90, C92, C93, C94, C95				
30 31	4 6		C61, C65, C66, C68 C96, C97, C100, C101,	Capacitor (Semiconductor SIM Model) Capacitor	C1206 Capacitor 0805	Cap Semi Cap	Cap Semi Cap
32	3		C105, C107 Pot1, Pot2, Pot3	3296W-1-253LF	Pot	20K	TRIM POT
33	31		C16, C17, C18, C19, C26, C27, C28, C29, C36, C37,	OLOUT 1 ZOOLI	Cap_SMD	100nF	Cap_SMD
			C38, C39, C40, C41, C43,				
			C44, C45, C46, C47, C49, C50, C51, C52, C54, C55,				
			C57, C75, C76, C77, C80, C81				
34 35	1 3		RSP3 Cd1, Cd2, Cd3		Res-RS Cd	15 ohm 15uF	Res_Rd Cd
36 37	4		C42, C53, C56, C72 C48		Cap_tantalum Cap_tantalum	22uF 22uF/25V	Cap_tantalum Cap_tantalum
38	1 1		2 Cs2		2inputor Cap-Cs	2input or595-SN74AS32DR 560p	2 input OR Cap-CS
40	1		Cs3		Cap-Cs	560pF	Cap-CS
41	1 4		Cs1 Current_Sense1,		Cap-Cs SOIC-8	990pF ACS712-05	Cap-CS Current Sensor 5A
			Current_Sense2, Current_Sense3,				
43	1		Current_Sense4 Logic supply1		Auxiliary connector	Auxilary connector	Auxilary connector
44 45	1 2		Cs4 Csnub1, Csnub2		Cap-Cs Cap-Csnub	Cap cdv16ff101j03 Cap DPPM10S22K-F	Cap-CS Cap-Csnub
46 47	3		CP1, CP2, CP4 CP3		Cap_cp	Cap_CP	Cap_CP
48	1		Cd4		Cap_cp - small	Cap_CP Cd	Cap_CP Cd
49	6		Con1, Con2, Con4, Con5, Con6, Con8		PCBComponent_1	Component_1	Component_1
50 51	1 1		Load1 1		Connector_60A Control Board	Connector 60A Control Board	Connector 60A Control Board
52 53	1 3		U1 digitalopt1, digitalopt2,		P-terminal 3 SO8 TS27I2	DC Input Dig opto SI8421BB-D-IS	P-Terminal 3 Digital Isolator
54	1		digitalopt3 Grid1		Auxiliary connector	Grid Input for sense	Auxilary connector
55	8		GaN1, GaN2, GaN3, GaN4, GaN5, GaN6, GaN7, GaN8		GS66508B	GS66508B	GS66508B
56 57	1		Heat Sink1		Heat Sink Inductor_small	Heat sink inductor	Heat sink inductor
58	1		L2		Inductor_small_mirror	inductor	inductor
59 60	2 2		L_snub1, L_snub2 Ls1, Ls2		Inductor surface mount Inductor output	Inductor smd Inductor_output	Inductor smd Inductor_output
61	4		Gate_Driver1, Gate_Driver2, Gate_Driver3, Gate_Driver4		Gate driver _low side	IXDD609SI	Gate driver low side
62 63	1 2		U2 MEJ1, MEJ2		P-Terminal 2 MEJ2	Jumper Vin MEJ2S1212SC	P-Terminal 2 Power supply2
64 65	1		Power1 NMH1		Power_main NMH1209SC	NCS6S4812C NMH1209SC	Power_main NMHSC_1
66	15		C3, C4, C5, C6, C7, C10, C11, C12, C13, C14, C15		Output cap	Output_cap	Output_cap
			C24, C25, C34, C35		DOD COMPONE	COMMITCITOD	COMMITTOTO
67 68	2 2		Con3, Con7 Jumper1, Jumper2		PCB_CONNECTOR Header1*3	pcb CONNECTOR p_jumper	pcb CONNECTOR p_jumper
70	1 3		4 RSP1, RSP2, RSP4		REF52.5 Res-RS	REF5025AIDR Res_Rd	REF5025AIDR Res_Rd
71 72	1 54		Rsense1 TP1, TP2, TP3, TP4, TP5,		Sense resistor Test Point	Sense Resistor Test Point	Sense Resistor Test Point
			TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14,				
			TP15, TP16, TP17, TP18, TP19, TP20, TP21, TP22,				
			TP23, TP24, TP25, TP26,				
			TP27, TP28, TP29, TP30, TP31, TP32, TP33, TP34,				
			TP35, TP36, TP37, TP38, TP39, TP40, TP41, TP42,				
			TP43, TP44, TP45, TP46, TP47, TP48, TP49, TP50,				
73	2		TP51, TP52, TP53, TP54 T1, T2		Transformer	Transformer	Transformer
74	3		XC1, XC2, XC3		SOT-89-5	XC6216C202PR-G	power supply