

Comment	Description	Designator	Footprint	LibRef	Quantity	Received	Notes
2.2uF_180V	KEMET PHE450 Metallised Polypropylene Film Capacitor, 180 V ac, 250 V dc, ±5%, 2.2µF, Through Hole	C1_1, C1_2, C1_3, C3_1, C3_2, C3_3	Film Capacitor PHE450H	PHE450HF7220JR06L2	6	TRUE	
Earth Capacitor	Y Earth Capacitor	C2	RAD-0.3	102_Y	1	TRUE	CS45-B2GA101K-VKA Ceramic Suppression Capacitor, 100 pF, ± 10%, X1 / Y2, 440 V, 300 V, Radial Leaded, E0.15
2.2uF_0805	SMD Multilayer Ceramic Capacitor, 2.2 µF, 50 V, 0805 [2012 Metric], ± 10%, X5R, C	C4, C5, C6, C7	0805 Capacitor	C2012X5R1H225K125	4	TRUE	Suggest changing to 1nF for better high freq performance
100nF_0805	SMD Multilayer Ceramic Capacitor, 0.1 µF, 50 V, 0805 [2012 Metric], ± 5%, X7R, C Series KEMET	C8, C10, C12, C14, C16, C18, C20, C22, C24_1, C24_2, C24_3, C26_1, C26_2, C26_3, C28_1, C28_2, C28_3, C9, C11, C13, C15, C17, C19, C21, C23, C25_1, C25_2, C25_3, C27_1, C27_2, C27_3, C29_1, C29_2, C29_3,	0805 Capacitor	C0805C104J5RACTU	20	TRUE	
4.7uF_1206	SMD Multilayer Ceramic Capacitor, 4.7 µF, 50 V, 1206 [3216 Metric], ± 10%, X7R, C		1206 Capacitor	C3216X7R1H475K160A	20	TRUE	
ADC	50-Pin Simplus Connector	J1	SHF-125-01-L-D-RA	SHF-125-01-L-D-RA	1	TRUE	
EPWM	50-Pin Simplus Connector	J2	SHF-125-01-L-D-RA	SHF-125-01-L-D-RA	1	TRUE	
ADC1	SSQ - Samtec 2.54mm Square Tail Dual Row Socket Strip 8.5mm Profile - Fast Stock	J3	SSQ-110-03-T-D	SSQ-110-03-T-D	1	TRUE	
EPWM1	SSQ - Samtec 2.54mm Square Tail Dual Row Socket Strip 8.5mm Profile - Fast Stock	J4	SSQ-110-03-T-D	SSQ-110-03-T-D	1	TRUE	
M5 Mounting Hole		J5, J10, J13, J14, J15, J16, J17, J19, J20	M5 Mounting Hole	M5 Mounting Hole	9	TRUE	
LCL1_Out	3 Position Terminal Block 5.08mm	J6	3 Pin Terminal	3PinTerminal	1	TRUE	
LCL1_In	3 Position Terminal Block 5.08mm	J7	3 Pin Terminal	3PinTerminal	1	TRUE	
LCL2_Out	3 Position Terminal Block 5.08mm	J8	3 Pin Terminal	3PinTerminal	1	TRUE	
LCL2_In	3 Position Terminal Block 5.08mm	J9	3 Pin Terminal	3PinTerminal	1	TRUE	
ADC2	SSQ - Samtec 2.54mm Square Tail Dual Row Socket Strip 8.5mm Profile - Fast Stock	J11	SSQ-110-03-T-D	SSQ-110-03-T-D	1	TRUE	
EPWM2	SSQ - Samtec 2.54mm Square Tail Dual Row Socket Strip 8.5mm Profile - Fast Stock	J12	SSQ-110-03-T-D	SSQ-110-03-T-D	1	TRUE	
M5 Earthing Hole		J18	M5 Earthing Hole	M5 Earthing Hole	1	TRUE	
30mH CM	30mH Custom CM Choke	L1, L2	CM Choke Custom	CM Choke Custom	2	TRUE	Custom
4mH		L3_1, L3_2, L3_3, L5_1, L5_2, L5_3	4mH Custom	4mH Custom Inductor	6	TRUE	Custom
380uH		L4_1, L4_2, L4_3, L6_1, L6_2, L6_3	380uH Custom	380uH Custom Inductor	6	TRUE	Custom
10k_2512	SMD Chip Resistor, 10 kohm, ± 1%, 2 W, 2512 [6432 Metric], Thick Film, High Power	R1_1, R1_2, R1_3, R3_1, R3_2, R3_3	2512 Resistor	MCHP122WF1002T4E	6	TRUE	
130_1206	SMD Chip Resistor, 130 ohm, ± 1%, 250 mW, 1206 [3216 Metric], Thick Film, General Purpose	R2_1, R2_2, R2_3, R4_1, R4_2, R4_3	1206 Resistor	CRCW1206130RFKEA	6	TRUE	Updated to CRCW1206348RFKEA. SMD Chip Resistor, 348 ohm, ± 1%, 250 mW, 1206 [3216 Metric], Thick Film, General Purpose, E0.05
20k_0805	SMD Chip Resistor, 20 kohm, ± 1%, 125 mW, 0805 [2012 Metric], Thick Film, General Purpose	R5, R7, R11, R13	0805 Resistor	CRCW080520K0FKEA	4	TRUE	Bias Resistor
200k_0805	SMD Chip Resistor, 200 kohm, ± 1%, 125 mW, 0805 [2012 Metric], Thick Film, General Purpose	R6, R10, R12, R16, R33_1, R33_2, R33_3, R36_1, R36_2, R36_3, R37_1, R37_2, R37_3, R40_1, R40_2, R40_3	0805 Resistor	CRCW0805200KFKEA	16		Suggest 27 kOhm. Gain 9. Big resistors have high freq leakage inductance.
10k_0805	SMD Chip Resistor, 10 kohm, ± 1%, 125 mW, 0805 [2012 Metric], Thick Film, General Purpose	R8, R9, R14, R15, R34_1, R34_2, R34_3, R35_1,	0805 Resistor	CRCW080510K0FKEA	16		Suggest 3k Ohm
I3	20-313143 PCB Test Point, White, Through Hole Mount, 1.32 mm, Phosphor Bronze, Tin Plated Contacts	TP1, TP15	PCB 1.32mm TestPoint	PCBTestpoint	2	TRUE	
I1	20-313143 PCB Test Point, White, Through Hole Mount, 1.32 mm, Phosphor Bronze, Tin Plated Contacts	TP2, TP13	PCB 1.32mm TestPoint	PCBTestpoint	2	TRUE	
I2	20-313143 PCB Test Point, White, Through Hole Mount, 1.32 mm, Phosphor Bronze, Tin Plated Contacts	TP3, TP14	PCB 1.32mm TestPoint	PCBTestpoint	2	TRUE	
VDC	20-313143 PCB Test Point, White, Through Hole Mount, 1.32 mm, Phosphor Bronze, Tin Plated Contacts	TP4, TP16	PCB 1.32mm TestPoint	PCBTestpoint	2	TRUE	
VC_2A	20-313143 PCB Test Point, White, Through Hole Mount, 1.32 mm, Phosphor Bronze, Tin Plated Contacts	TP6	PCB 1.32mm TestPoint	PCBTestpoint	1	TRUE	
VC_2B	20-313143 PCB Test Point, White, Through Hole Mount, 1.32 mm, Phosphor Bronze, Tin Plated Contacts	TP7	PCB 1.32mm TestPoint	PCBTestpoint	1	TRUE	
VC_2C	20-313143 PCB Test Point, White, Through Hole Mount, 1.32 mm, Phosphor Bronze, Tin Plated Contacts	TP8	PCB 1.32mm TestPoint	PCBTestpoint	1	TRUE	
VC_1A	20-313143 PCB Test Point, White, Through Hole Mount, 1.32 mm, Phosphor Bronze, Tin Plated Contacts	TP9	PCB 1.32mm TestPoint	PCBTestpoint	1	TRUE	
VC_1B	20-313143 PCB Test Point, White, Through Hole Mount, 1.32 mm, Phosphor Bronze, Tin Plated Contacts	TP10	PCB 1.32mm TestPoint	PCBTestpoint	1	TRUE	
VC_1C	20-313143 PCB Test Point, White, Through Hole Mount, 1.32 mm, Phosphor Bronze, Tin Plated Contacts	TP11	PCB 1.32mm TestPoint	PCBTestpoint	1	TRUE	
OT1	20-313143 PCB Test Point, White, Through Hole Mount, 1.32 mm, Phosphor Bronze, Tin Plated Contacts	TP17	PCB 1.32mm TestPoint	PCBTestpoint	1	TRUE	
PWMEN1	20-313143 PCB Test Point, White, Through Hole Mount, 1.32 mm, Phosphor Bronze, Tin Plated Contacts	TP18	PCB 1.32mm TestPoint	PCBTestpoint	1	TRUE	
OT2	20-313143 PCB Test Point, White, Through Hole Mount, 1.32 mm, Phosphor Bronze, Tin Plated Contacts	TP19	PCB 1.32mm TestPoint	PCBTestpoint	1	TRUE	
PWMEN2	20-313143 PCB Test Point, White, Through Hole Mount, 1.32 mm, Phosphor Bronze, Tin Plated Contacts	TP20	PCB 1.32mm TestPoint	PCBTestpoint	1	TRUE	
AGND	H2182-01 PCB Test Point, PCB Mount, 1.9 mm, Brass, Tin Plated Contacts	TP35	1.9mm Hole	GroundTestPoint	1	TRUE	
LV25P	Undefined or Miscellaneous	U1_1, U1_2, U1_3, U2_1, U2_2, U2_3	LV-25-P	LV25P	6		In Lab
4ch Op Amp	Quad, 30-V, 3-MHz, high slew rate (13-V/µs), In to V+, JFET-input op amp	U3, U4, U5, U6	SOIC-14	TL074D	4	TRUE	