

Bill of Materials

Project Title: Bill of Materials for Project [Buck-Boost-Converter.PrjPcb] (No PCB Document Selected)
Project File Name: Buck-Boost-Converter.PrjPcb
Assembly Variant: None

EIE

Part Number	Description	Designator	Manufacturer	Manufacturer Part Number	Supplier	Supplier Part Number	Supplier Unit Price	Quantity
R15P21503D	2W DC/DC Converter 'ECONOLINE' SIP7 6.4kV unreg. V. In: 15; V. Out: +15/- 03; mA. Out: +93/-185	U2	Recom	R15P21503D	Digi-Key	945-3070-5-ND	\$8.47	1
UCC5390ECD	10-A/10-A, 3-k/5-kVRMS single-channel isolated gate driver with 12-V UVLO, bipolar supply 8-SOIC -40 to 125	U3	Texas Instruments	UCC5390ECD	Digi-Key	296-48101-ND	\$2.81	1
6399BG	AAVID THERMALLOY 6399BG Heat Sink, TO- 220/218, TO-220, 3.3 C/W, 50 mm, 41.91 mm, 25.4 mm	H1, H2	Aavid Thermalloy	6399BG	Digi-Key	H528-ND	\$6.20	2
8PCV-02-006	Barrier Terminal Blocks VERTICAL RAISED 2P	J4	TE Connectivity	8PCV-02-006	Digi-Key	A98460-ND	\$1.84	1
SMAJ5.0A	BOURNS - SMAJ5.0A - TVS Diode, SMAJ Series, Unidirectional, 5 V, 9.2 V, DO- 214AC (SMA), 2 Pins	D5	Bourns	SMAJ5.0A	Digi-Key	SMAJ5.0ABCT-ND	\$0.49	1
CT2238-0	Cable Assembly 4MM Safety Jack, Panel W/ 25 Fast on Terminal Black	Banana connector1, Banana connector2, Banana connector5, Banana connector6	Cal Test Electronics	CT2238-0	Digi-Key	BKCT2238-0-ND	\$2.00	4
CT2238-2	Cable Assembly 4MM Safety Jack, Panel W/ 25 Fast on Terminal Red	Banana connector3, Banana connector4, Banana connector7, Banana connector8, Banana connector9, Banana connector10	Cal Test Electronics	CT2238-0	Digi-Key	BKCT2238-0-ND	\$2.00	6
475MXH100MEFC	Cap Aluminum Lytic 100uF 475V 20% (22 X 35mm) Snap- In 10mm 880mA 2000h 105C	C4, C5	Rubycon	475MXH100MEFCSN22X35	Digi-Key	1189-3424-ND	\$3.65	2
C0603C104MSRA	CAP CER 0.1UF 50V X7R 0603 CAP CER 0.22UF 50V X7R	C11, C16, C17, C27	KEMET	C0603C104MSRACTU	Digi-Key	399-7845-1-ND	\$0.10	4
UMK21287224KG	0805	C21, C24	Taiyo Yuden	UMK21287224KG-T	Digi-Key	587-1287-1-ND	\$0.14	2
CC0603KRX7R7B8	CAP CER 1UF 16V X7R 0603	C13	Yageo	CC0603KRX7R7B8105	Digi-Key	311-1446-1-ND	\$0.15	1
TMK107B7105KA	CAP CER 1UF 25V X7R 0603	C12	Taiyo Yuden	TMK107B7105KA-T	Digi-Key	587-2984-1-ND	\$0.11	1
UMK107AB7105KA	CAP CER 1UF 50V X7R 0603	C8, C14	Taiyo Yuden	UMK107AB7105KA-T	Digi-Key	587-3247-1-ND	\$0.28	2
UMK316AB7475K	CAP CER 4.7UF 50V X7R 1206	C10, C26	Taiyo Yuden	CEUMK316AB7475KL-T	Digi-Key	587-2994-1-ND	\$0.33	2
TMK316AB7106KL	CAP CER 10UF 25V X7R 1206	C9, C15	Taiyo Yuden	TMK316AB7106KL-T	Digi-Key	587-3486-1-ND	\$0.33	2
UMK325C7106MM	CAP CER 10UF 50V X7S 1210	C20, C23	Taiyo Yuden	CEUMK325C7106MM-T	Digi-Key	587-1818-1-ND	\$0.61	2
06035A101FAT2A	CAP CER 100PF 50V COG/NPO 0603	C25	Kyocera AVX	06035A101FAT2A/4K	Digi-Key	478-6202-1-ND	\$0.20	1
T491D106K050AT	CAP TANT 10UF 10% 50V 2917	C18, C19, C22	KEMET	T491D106K050AT	Digi-Key	399-8361-1-ND	\$2.02	3
HFBR-4505Z	Conn POF Adapter Simplex F/F ST Panel Mount	PWM-INPUT1	Broadcom Avago	HFBR-4505Z	Digi-Key	516-1748-ND	\$1.88	1
1217133-1	CONN QC TAB 0.187 SOLDER	J10, J11, J12	TE Connectivity	1217133-1	Digi-Key	A100449CT-ND	\$0.14	3
195J10	Fixed Inductors CHOKE	L1	Hammond Manufacturing	195J10	Digi-Key	HM2135-ND	\$68.56	1
3101_004	Fuse Holder, 400 V, 16 A, TH	F1	Schurter	3101_004	Digi-Key	486-1159-ND	\$4.02	1
55F 10-R	Fuse, 10 A, 250 VAC, N/A	F2	Bel	55F10-R	Digi-Key	507-1235-ND	\$0.24	1
RA111C1021-136	Illuminated Rocker Switches 16A 125VAC 4.8mm Tab Off- On	Rocker Switch 2PST	E-Switch	RA111C1021-136	Digi-Key	RA111C1021-136-ND	\$1.18	1
R75P32204030J	KEMET R75P32204030J Film Capacitor, AEC-Q200 R75 Series, 0.22 F, 5%, PP (Polypropylene), 630 V	C1, C3, C6, C7	KEMET	R75P32204030J	Digi-Key	399-12761-ND	\$0.95	4
C4AQLBU5250A12K	KEMET C4AQLBU5250A12K, CAP FILM 25UF 10% 500VDC RADIAL	C2	KEMET	C4AQLBU5250A12K	Digi-Key	399-16899-ND	\$7.00	1
150060G575000	LED GREEN CLEAR 0603 SMD	D3, D4	Wurth Electronics	150060G575000	Digi-Key	732-4971-1-ND	\$0.14	2
CMP-0003646-1	MACHINE SCREW PAN PHILLIPS M3 5mm	H7, H8, H9, H10, H13, H14	Building Fasteners	MPMS 003 0005 PH	Digi-Key	H742-ND	\$0.63	6
PMEG6010CEJ, 115	PMEG6010CEH; PMEG6010CEJ - 1 A very low VF MEGA Schottky barrier rectifiers	D2	Nexperia	PMEG6010CEJ,115	Digi-Key	1727-3882-1-ND	\$0.35	1
62409-1	Quick Disconnect Terminal M 15.8mm 7.5mm Tin Over Copper Automotive Bag	J1, J2, J3, J5, J6, J7, J8	TE Connectivity	62409-1	Digi-Key	A24742-ND	\$0.19	7
CRCW12062R70F	RES SMD 2.7 OHM 1% 3/4W 1206	R5	Vishay Dale	CRCW12062R70FKEAHP	Digi-Key	541-2_70JUCT-ND	\$0.43	1
RC0603FR-0710KL	RES SMD 10K OHM 1% 1/10W 0603	R2, R3	Mepco Philips	RC0603FR-0710KL	Digi-Key	311-10.0KHRCT-ND	\$0.10	2
RC0603FR-0720KL	RES SMD 20K OHM 1% 1/10W 0603	R6	Yageo	RC0603FR-0720KL	Digi-Key	311-20.0KHRCT-ND	\$0.10	1
CRCW0603100RFE	RES SMD 100 OHM 1% 1/10W 0603	R4	Vishay	CRCW0603100RFEAC	Digi-Key	541-3951-1-ND	\$0.10	1
HFBR-2531Z	RX Optical Fiber 5MBd 6-Pin	Rx1	Broadcom Avago	HFBR-2531Z	Digi-Key	516-2067-ND	\$12.98	1
C3M0045065K	Sic MOSFET 650V	Q1	WolfSpeed	C3M0045065K	Digi-Key	1697-C3M0045065K-ND	\$10.25	1
C6D06065A	Sic Schottky Diode, VRRM = 650V, IF= 6A	D1	Cree Wolfspeed	C6D06065A	Digi-Key	1697-C6D06065A-ND	\$1.80	1
SP9005-0.009-AC	Silicon Thermal Pad Standoff, Hex,25mm Length, M3, Aluminum	SIL1, SIL2	Bergquist	SP9005-0.009-AC-58	Digi-Key	BER183-ND	\$	2
CMP-0003640-1	M3, Aluminum	H3, H4, H5, H6, H11, H12	Keystone Electronics	24438	Digi-Key	36-24438-ND	\$0.68	6
282834-2	TE CONNECTIVITY / BUCHANAN - 282834-2 - TERMINAL BLOCK, WIRE TO BRD, 2POS, 16AWG	J9	BUCHANAN - TE CONNECTIVITY	282834-2	Digi-Key	A98333-ND	\$1.27	1
5011	Test Point, Multipurpose, Black, TH	TP5, TP13, TP22, TP23	Keystone Electronics	5011	Digi-Key	36-5011-ND	\$0.40	4
5010	Test Point, Multipurpose, Red, TH	TP1, TP2, TP3, TP4, TP6, TP7, TP8, TP9, TP10, TP11, TP15, TP16, TP17, TP19, TP20, TP21	Keystone Electronics	5010	Digi-Key	36-5010-ND	\$0.40	16
SMAJ16A	TVS DIODE 16VWM 26VC DO214AC	D6	Bourns	SMAJ16A	Digi-Key	SMAJ16ABCT-ND	\$0.49	1
L78L05ACUTR	Voltage regulator; linear, fixed; 5V, 0.1A; SOT89; SMD; 0+125°C	U1	STMicroelectronics	L78L05ACUTR	Digi-Key	497-1183-1-ND	\$0.53	1
SQMW747RJ	Wirewound Resistors 47 Ohms 7W 300PPM	R1	TE Connectivity	1-1623789-5	Digi-Key	A102485-ND	\$0.69	1
Total							\$146.60	100