Bill of Materials

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

EIE

Part Number	Description	Designator	Manufacture	Manufacture Part Number	Supplier	Supplier Part Number	Supplier Unit Price	Quantity
CT2238-0	Cable Assembly 4MM Safety Jack, Panel W/.25 Fast on Terminal Black	Banana connector1, Banana connector3, Banana connector5	Cal Test Electronics	CT2238-0	Digi-Key	BKCT2238-0-ND	$2,00	3
CT2238-2	Cable Assembly 4MM Safety Jack, Panel W/.25 Fast on Terminal Red	Banana connector2, Banana connector4, Banana connector6	Cal Test Electronics	CT2238-0	Digi-Key	BKCT2238-0-ND	$2,00	3
ESMQ451VSN471MA40S	CAP ALUM 470UF 20% 450V SNAP	C1	United Chemi-Con	ESMQ451VSN471MA40S	Digi-Key	565-2798-ND	$6,28	1
R75PI32204030J	KEMET R75PI32204030J Film Capacitor, AEC-Q200 R75 Series, 0.22 F, 5%, PP (Polypropylene), 630 V	C2, C3, C4	KEMET	R75PI32204030J	Digi-Key	399-12761-ND	$0,95	3
GCM1885C2A101JA16D	CAP CER 100PF 100V C0G/NP0 0603	C5, C12, C22, C29	Murata	GCM1885C2A101JA16D	Digi-Key	490-4771-1-ND	$0,14	4
UMK107AB7105KA-T	CAP CER 1UF 50V X7R 0603	C6, C9, C14, C17, C20, C23, C26, C31, C34, C37, C39, C41, C47, C49, C51, C53, C59, C61	Taiyo Yuden	UMK107AB7105KA-T	Digi-Key	587-3247-1-ND	$0,19	18
C0603C104M5RACTU	CAP CER 0.1UF 50V X7R 0603	C7, C10, C15, C18, C24, C27, C32, C35, C44, C46, C56, C58, C68, C69, C70, C71, C72	KEMET	C0603C104M5RACTU	Digi-Key	399-7845-1-ND	$0,03	17
CGA3E2C0G1H103J080AA	CAP CER 10000PF 50V C0G 0603	C8, C11, C16, C19, C25, C28, C33, C36	TDK	CGA3E2C0G1H103J080AA	Digi-Key	445-6916-1-ND	$0,34	8
GRM188R71E224KA88J	CAP CER 0.22UF 25V X7R 0603	C13, C30	Murata	GRM188R71E224KA88J	Digi-Key	490-11522-1-ND	$0,20	2
CGA3E2X7R1E104K080AA	CAP CER 0.1UF 25V X7R 0603	C21, C38	TDK	CGA3E2X7R1E104K080AA	Digi-Key	445-5667-1-ND	$0,10	2
TMK316AB7106KL-T	CAP CER 10UF 25V X7R 1206	C40, C42, C48, C50, C52, C54, C60, C62	Taiyo	TMK316AB7106KL-T	Digi-Key	587-3486-1-ND	$0,33	8
UMK316AB7475KL-T	CAP CER 4.7UF 50V X7R 1206	C43, C45, C55, C57, C67	Taiyo Yuden	CEUMK316AB7475KL-T	Digi-Key	587-2994-1-ND	$0,33	5
TMK107B7105KA-T	CAP CER 1UF 50V X7R 0603	C63, C65	Taiyo Yuden	TMK107B7105KA-T	Digi-Key	587-2984-1-ND	$0,11	2
CC0603KRX7R7BB105	CAP CER 1UF 16V X7R 0603	C64, C66	Yageo	CC0603KRX7R7BB105	Digi-Key	311-1446-1-ND	$0,15	2
SMAJ5.0A	BOURNS - SMAJ5.0A - TVS Diode, SMAJ Series, Unidirectional, 5 V, 9.2 V, DO-214AC (SMA), 2 Pins	D1, D2, D5, D6	Bourns	SMAJ5.0A	Digi-Key	SMAJ5.0ABCT-ND	$0,49	4
SMAJ16A	TVS DIODE 16VWM 26VC DO214AC	D3, D4, D7, D8	Bourns	SMAJ16A	Digi-Key	SMAJ16ABCT-ND	$0,49	4
150060GS75000	LED GREEN CLEAR 0603 SMD	D9, D10, D11, D12, D15, D16	Wurth Electronics	150060GS75000	Digi-Key	732-4971-1-ND	$0,14	6
PMEG6010CEJ,115	PMEG6010CEH; PMEG6010CEJ - 1 A very low VF MEGA Schottky barrier rectifiers	D13, D14	Nexperia	PMEG6010CEJ,115	Digi-Key	1727-3882-1-ND	$0,35	2
3101,004	Fuse Holder, 400 V, 16 A, TH	F1	Schurter	3101,004	Digi-Key	486-1159-ND	$4,02	1
5SF 10-R	Fuse, 10 A, 250 VAC, N/A	F2	Bel	5SF10-R	Digi-Key	507-1235-ND	$0,24	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, H3, H4	Aavid Thermalloy	6399BG	Digi-Key	HS528-ND	$6,20	4
CMP-0003640-1	Standoff, Hex,25mm Length, M3, Aluminum	H5, H6, H7, H8, H9, H10	Keystone Electronics	24438	Digi-Key	36-24438-ND	$0,68	6
CMP-0003646-1	MACHINE SCREW PAN PHILLIPS M3 5mm	H11, H12, H13, H14, H15, H16	Building Fasteners	MPMS 003 0005 PH	Digi-Key	H742-ND	$0,63	6
62409-1	Quick Disconnect Terminal M 15.8mm 7.5mm Tin Over Copper Automotive Bag	J1, J2, J3, J4	TE Connectivity	62409-1	Digi-Key	A24742-ND	$0,19	4
1217133-1	CONN QC TAB 0.187 SOLDER	J5, J6, J8	TE Connectivity	1217133-1	Digi-Key	A100449CT-ND	$0,14	3
282834-2	TE CONNECTIVITY / BUCHANAN - 282834-2 - TERMINAL BLOCK, WIRE TO BRD, 2POS, 16AWG	J7	TE Connectivity	282834-2	Digi-Key	A98333-ND	$1,27	1
HFBR-4505Z	Conn POF Adapter Simplex F/F ST Panel Mount	PWM-INPUT1, PWM-INPUT2, PWM-INPUT3, PWM-INPUT4	Broadcom Avago	HFBR-4505Z	Digi-Key	516-1748-ND	$1,88	4
C3M0045065K	Sic MOSFET 650V	Q1, Q2, Q3, Q4			Digi-Key	1697-C3M0045065K-ND	$10,25	4
RC0603FR-0720KL	RES SMD 20K OHM 1% 1/10W 0603	R1, R2, R3, R4	Yageo	RC0603FR-0720KL	Digi-Key	311-20.0KHRCT-ND	$0,10	4
CRCW06030000Z0EAHP	RES SMD 0 OHM JUMPER 1/4W 0603	R5, R6, R12, R13	Vishay Dale	CRCW06030000Z0EAHP	Digi-Key	541-0.0SBCT-ND	$0,14	4
CRCW12062R70FKEAHP	RES SMD 2.7 OHM 1% 3/4W 1206	R7, R8, R14, R15	Vishay Dale	CRCW12062R70FKEAHP	Digi-Key	541-2.70UCT-ND	$0,43	4
TC33X-2-203E	TRIMMER 20K OHM 0.1W J LEAD TOP	R9, R16	Bourns	TC33X-2-203E	Digi-Key	TC33X-2-203ECT-ND	$0,26	2
RC0603JR-075K1L	RES SMD 5.1K OHM 5% 1/10W 0603	R10, R11, R17, R18	Yageo	RC0603JR-075K1L	Digi-Key	311-5.1KGRCT-ND	$0,10	4
RC0603FR-0710KL	RES SMD 10K OHM 1% 1/10W 0603	R19, R20, R21, R22, R23, R24	Mepco Philips	RC0603FR-0710KL	Digi-Key	311-10.0KHRCT-ND	$0,10	6
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
HFBR-2531Z	RX Optical Fiber 5MBd 6-Pin	Rx1, Rx2, Rx3, Rx4	Broadcom Avago	HFBR-2531Z	Digi-Key	516-2067-ND	$12,98	4
SP900S-0.009-AC-58	Silcon Thermal Pad	SIL1, SIL2, SIL3, SIL4	Bergquist	SP900S-0.009-AC-58	Digi-Key	BER183-ND	$0,27	4
5010	Test Point, Multipurpose, Red, TH	TP1, TP2, TP5, TP6, TP7, TP8, TP13, TP14, TP15, TP16	Ohmite	5010	Digi-Key	36-5010-ND	$0,34	10
5011	Test Point, Multipurpose, Black, TH	TP3, TP4, TP9, TP10, TP11, TP12	Keystone Electronics	5011	Digi-Key	36-5011-ND	$0,40	6
UCC21530QDWKRQ1 (2)	Isolated Dual-Channel Gate Driver 6A 2-Output High Side/Low Side/Half-Bridge 14-Pin SOIC T/R	U1, U2	Texas Instruments	UCC21530QDWKRQ1	Mouser	595-UCC21530QDWKRQ1	$5,17	2
R15P21503D	2W DC/DC-Converter 'ECONOLINE' SIP7 6.4kV unreg; V. In: 15; V. Out: +15/-03; mA. Out: +93/-185	U3, U4, U5, U6	Recom	R15P21503D	Digi-Key	945-3070-5-ND	$8,47	4
L78L05ACUTR	Voltage regulator; linear, fixed; 5V; 0.1A; SOT89; SMD; 0÷125°C	U7, U8	STMicroelectronics	L78L05ACUTR	Digi-Key	497-1183-1-ND	$0,53	2
Total							**$236,58**	**185**