

Bill of Materials

TI DESIGNS

ITEM	MANU PART NUM	QTY	REF DESIGNATORS	VENDOR NUMBER	DESCRIPTION	VENDOR	MANU
1	DRV8412DDW	1	U1	DRV8412DDW	MOTOR DRIVE POWER AMP HTSSOP44-DDW ROHS	TEXAS INSTRUMENTS	TEXAS INSTRUMENTS
2	TXB0106PWR	1	U2	296-23759-1	6-BIT BIDIR LEVEL TRANSLATOR TSSOP16-PW ROHS	DIGI-KEY	TEXAS INSTRUMENTS
3	OPA2350EA/250	2	OA1, OA2	OPA2350EACT	OP AMP DUAL HI-SPEED SINGLE SUPPLY RAIL 2 RAIL MSOP8-DGK ROHS 1.5A 60V SETP DOWN	DIGI-KEY	BURR BROWN
4	TPS54160DGQ	1	VR1	296-23864-5	SWIFT DC/DC CONV ECO MODE MSOP10-DGQ ROHS	DIGI-KEY	TEXAS INSTRUMENTS
5	UA78M05CDCYR	1	VR2	296-12290-1	VOLT REG 5.0V 500mA SOT223-DCY ROHS	DIGI-KEY	TEXAS INSTRUMENTS
6	UA78M33CDCYR	1	VR3	296-13424-1	VOLT REG 3.3V 500mA SOT223-DCY ROHS CMOS VOLTAGE	DIGI-KEY	TEXAS INSTRUMENTS
7	REF3025AIDBZT	1	VR4	REF3025AIDBZTCT	REFERENCE 50PPM/C 2.5V/25mA SOT23-DBZ3 ROHS	DIGI-KEY	TEXAS INSTRUMENTS
8	VS-30BQ100TRPBF	1	CR1	VS-30BQ100PBFCT	SCHOTTKY RECTIFIER 790mV@3A SMC ROHS	DIGI-KEY	VISHAY
9	SML-LXT0805GWT	4	LED1, LED2, LED3, STATUS	67-1553-1	LED, GREEN 2.0V SMD0805 ROHS	DIGI-KEY	LUMEX OPTO
10	SML-LXT0805YWT	1	LED5	67-1554-1	LED, YELLOW 2.0V SMD0805 ROHS	DIGI-KEY	LUMEX OPTO
11	SML-LXT0805SRWT	1	LED6	67-1555-1	LED, RED 2.0V SMD0805 ROHS	DIGI-KEY	LUMEX OPTO
12	IRLMS5703TRPBF	2	Q1, Q2	IRLMS5703PBFCT	MOSFET, P-Chan 30V 2.3A, SOT23-DBV6 ROHS	DIGI-KEY	INTERNATIONAL RECTIFIER
13	ECJ-1VC1H120J	1	C9	PCC120ACVCT	CAP SMD0603 CERM 12PFD 50V 5% NPO ROHS	DIGI-KEY	PANASONIC
14	06035A181JAT2A	1	C8	478-1178-1	CAP SMD0603 CERM 180PFD 50V 5% COG ROHS	DIGI-KEY	AVX
15	ECJ-1VB1H102K	10	C47, C48, C49, C51, C52, C54, C57, C58, C59, C60	PCC1772CT	CAP SMD0603 CERM 1000PFD 50V 10% X7R ROHS	DIGI-KEY	PANASONIC

16	ECJ-1VB2A102K	4	C50, C53, C55, C56	PCC1952CT	CAP SMD0603 CERM 1000PFD 100V 10% X7R ROHS	DIGI-KEY	PANASONIC
17	ECJ-2VB2A103K	1	C3	PCC1991CT	CAP SMD0805 CERM 0.01UFD 100V 10% X7R ROHS	DIGI-KEY	PANASONIC
18	C1608X7R2A153K	2	C5, C6	445-4426-1-ND	CAP SMD0603 CERM 0.015UFD 100V 10% X7R ROHS	DIGI-KEY	TDK CORP.
19	ECJ-1VB1C104K	9	C7, C12, C14, C16, C23, C24, C33, C41, C44	PCC1762CT	CAP SMD0603 CERM 0.1UFD 16V 10% X7R ROHS	DIGI-KEY	PANASONIC
20	ECJ-1VB1C104K	9	C7, C12, C14, C16, C23, C24, C33, C41, C44	PCC1762CT	CAP SMD0603 CERM 0.1UFD 16V 10% X7R ROHS	DIGI-KEY	PANASONIC
21	C2012X7R2A104K	9	C2, C36, C37, C39, C40, C42, C43, C45, C46	445-1418-1	CAP SMD0805 CERM 0.1UFD 100V 10% X7R ROHS	DIGI-KEY	TDK CORP.
22	0603YD474KAT2A	1	C38	478-1248-1	CAP SMD0603 CERM 0.47UFD 16V 10% X5R ROHS	DIGI-KEY	AVX
23	ECJ-4YB2A474K	1	C17	PCC2240CT	CAP SMD1210 CERM 0.47UFD 100V 10% X7R ROHS	DIGI-KEY	PANASONIC
24	ECJ-1VB1C105K	5	C29, C30, C32, C34, C35	PCC2224CT	CAP SMD0603 CERM 1.0UFD 16V 10% X5R ROHS	DIGI-KEY	PANASONIC
25	GRM21BR61C106KE15L	1	C18	490-3886-1	CAP SMD0805 CERM 10UFD 16V 10% X5R ROHS	DIGI-KEY	MURATA
26	ECA-2AM220	1	C4	P5310-ND	CAP ALUM ELEC M RADIAL 22UFD 100V 20% ROHS	DIGI-KEY	PANASONIC
27	EEU-FC1C470	2	C13, C15	P11196	CAP ALUM ELEC FC RADIAL 47UFD 16V ROHS	DIGI-KEY	PANASONIC
28	ECA1CM101	1	C31	P5138	CAP ALUM ELEC M RADIAL 100UFD 16V 20% ROHS	DIGI-KEY	PANASONIC
29	ECA-1EM101	1	C10	P5152	CAP ALUM ELEC M RADIAL 100UFD 25V 20% ROHS	DIGI-KEY	PANASONIC
30	ECA-1CM221	1	C11	P5139	CAP ALUM ELEC M RADIAL 220UFD 16V 20% ROHS	DIGI-KEY	PANASONIC
31	UVZ1J102MHD	1	C1	493-1359	CAP 1000UFD 63V RAD ALUM ELEC VZ ROHS	DIGI-KEY	NICHICON
32	ERJ-3GEY0R00V	4	R20, R21, R22, R23	P0.0GCT	RESISTOR SMD0603 0.0 OHM 5% THCK FLM 1/10W ROHS	DIGI-KEY	PANASONIC
33	WSLP1206R0100FEA	4	R50, R51, R52, R53	WSLP-.01CT	RESISTOR SMD1206 0.01 OHMS 1% 1W ROHS	DIGI-KEY	VISHAY
34	ESR10EZPJ1R0	1	R36	RHM1KCT	RESISTOR SMD0805 1.0 OHM 1/4W 1% ROHS	DIGI-KEY	ROHM
35	ERJ-8RQJ3R3V	1	R1	P3.3PCT	RESISTOR SMD1206 3.3 OHMS 5% 1/4W ROHS	DIGI-KEY	PANASONIC
36	ERJ-6GEYJ330V	2	R18, R19	P33ACT	RESISTOR SMD0805 33 OHMS 5% 1/8W ROHS	DIGI-KEY	PANASONIC
37	ERJ-3EKF3570V	1	R4	P357HCT	RESISTOR SMD0603 357 OHM 1% THICK FILM 1/10W ROHS	DIGI-KEY	PANASONIC

38	ERJ-3EKF3920V	2	R46, R47	P392HCT	RESISTOR SMD0603 392 OHM 1% THICK FILM 1/10W ROHS	DIGI-KEY	PANASONIC
39	ERJ-3GEYJ471V	2	R14, R17	P470GCT	RESISTOR SMD0603 470 OHMS 5% 1/10W ROHS	DIGI-KEY	PANASONIC
40	ERJ-3EKF4990V	4	R39, R41, R43, R45	P499HCT	RESISTOR SMD0603 499 1% THICK FILM 1/10W ROHS	DIGI-KEY	PANASONIC
41	CRCW0603681 RFKEA	1	R11	541-681HCT	RESISTOR SMD0603 681 OHMS 1% 1/10W ROHS	DIGI-KEY	VISHAY
42	RC0603FR-071KL	8	R28, R29, R30, R31, R32, R33, R34, R35	311-1.00KHRCT	RESISTOR SMD0603 THICK FILM 1.00K OHM 1% 1/10W ROHS	DIGI-KEY	YAGEO
43	CRCW06034K0 2FKEA	1	R16	541-4.02KHCT	RESISTOR SMD0603 4.02K OHMS 1% 1/10W ROHS	DIGI-KEY	VISHAY
44	ERJ-3EKF4991V	3	R2, R3, R13	P4.99KHCT	RESISTOR SMD0603 4.99K OHM 1% THICK FILM 1/10W ROHS	DIGI-KEY	PANASONIC
45	ERJ-3EKF1002V	7	R9, R10, R15, R38, R40, R42, R44	P10.0KHCT	RESISTOR SMD0603 10.0K 1% THICK FILM 1/10W ROHS	DIGI-KEY	PANASONIC
46	ERJ-3EKF2262V	4	R24, R25, R26, R27	P22.6KHCT-ND	RESISTOR SMD0603 22.6K OHMS 1% THICK FILM 1/10W ROHS	DIGI-KEY	PANASONIC
47	CRCW060333K 2FKEA	1	R6	541-33.2KHCT	RESISTOR SMD0603 33.2K OHMS 1% 1/10W ROHS	DIGI-KEY	VISHAY
48	ERJ-3EKF3402V	4	R48, R49, R54, R55	P34.0KHCT-ND	RESISTOR SMD0603 34.0K OHMS 1% THICK FILM 1/10W ROHS	DIGI-KEY	PANASONIC
49	RC0603FR-0736KL	1	R37	311-36.0KHRCT-ND	RESISTOR SMD0603 THICK FILM 36.0K OHMS 1% 1/10W ROHS	DIGI-KEY	YAGEO
50	ERJ-3EKF4992V	10	R56, R57, R58, R59, R60, R61, R62, R63, R64, R65	P49.9KHCT	RESISTOR SMD0603 49.9K OHMS 1% THICK FILM 1/10W ROHS	DIGI-KEY	PANASONIC
51	ERJ-3EKF9532V	1	R12	P95.3KHCT	RESISTOR SMD0603 95.3K 1% THCK FLM 1/10W ROHS	DIGI-KEY	PANASONIC
52	CRCW0603205 KFKEA	1	R7	541-205KHCT	RESISTOR SMD0603 205K OHMS 1% 1/10W ROHS	DIGI-KEY	VISHAY
53	CRCW0603348 KFKEA	1	R5	541-348KHCT	RESISTOR SMD0603 348K OHMS 1% 1/10W ROHS	DIGI-KEY	VISHAY
54	CRCW0603442 KFKEA	1	R8	541-442KHCT	RESISTOR SMD0603 442K OHMS 1% 1/10W ROHS	DIGI-KEY	VISHAY
55	ELL-CTV390M	1	L1	PCD2159CT	INDUCTOR SMD 39uH 2.1A 61mOHMS 20% ROHS	DIGI-KEY	PANASONIC
56	MPZ2012S300 A	4	L2, L3, L4, L5	445-1566-1	FERRITE BEAD, 30 Ohms 6A 100MHz SM0805 ROHS	DIGI-KEY	TDK
57	PBC03SAAN	6	M1, M2, M3, JP1, JP2, JP3	S1011E-03-ND	HEADER THRU MALE 3 PIN 100LS GOLD ROHS	DIGI-KEY	SULLINS
58	PBC05SAAN	2	J2, J3	S1011E-05	HEADER THRU MALE 1X5 100LS GOLD ROHS	DIGI-KEY	SULLINS
59	87630-1001	1	J1	538-87630-1001	CONNECTOR THRU DIM100 FEMALE 1A ROHS	MOUSER	MOLEX
60	5003	14	/OTW, DAC1, DAC2, PWMA, PWMB, PWMC, PWMD, OUT_A, OUT_B, OUT_C, OUT_D, /FAULT, /RESET_AB, /RESET_CD	5003K	PC TESTPOINT, ORANGE, ROHS	DIGI-KEY	KEYSTONE ELECTRONICS

61	5001	4	GNDx4	5001K	PC TESTPOINT, BLACK, ROHS	DIGI-KEY	KEYSTONE ELECTRONICS
62	ATE1E-2M3-10-Z	2	S1, S2	563-1159	SWITCH, SPST VERT-PCB ON-OFF-ON MINIATURE TOGGLE ROHS	DIGI-KEY	COPAL ELECTRONICS
63	SPC02SYAN	5	M1(2-3), M2(2-3), M3(2-3), JP1(1-2), JP3(1-2)	S9001	SHUNT, BLACK AU FLASH 0.100LS	DIGI-KEY	SULLINS
64	111-2223-001	4	OUTA, OUTB, OUTC, OUTD	J587	BINDING-POST, NONINS, THRU, ROHS	DIGI-KEY	EMERSON NPCS
65	3760-2	2	+12V, PVDD	565-3760-2	BINDING POST, RED 60V/15A TIN ROHS	MOUSER	POMONA
66	3760-0	2	GND, GND2	565-3760-0	BINDING POST, BLACK 60V/15A TIN ROHS	MOUSER	POMONA
67	PMS 440 0025 PH	8	NA	H342	4-40 SCREW, STEEL 0.250 IN	DIGI-KEY	BUILDING FASTENERS
68	2031	8	NA	2031K	STANDOFF, 4-40, 1.0INx1/4IN, ALUM RND F-F	DIGI-KEY	KEYSTONE ELECTRONICS

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