

Bill of Materials

TI DESIGNS
TIDA-00645

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number
1	1			Printed Circuit Board	Any	TIDA-00645
2	1	0603	0.1uF	CAP, CERM, 0.1uF, 10V, +/-10%, X7R, 0603	Kemet	C0603C104K8RACTU
3	1	0805	4.7uF	CAP, CERM, 4.7 μF, 50 V, +/- 10%, X5R, 0805	TDK	C2012X5R1H475K125AB
4	4	0603	1uF	CAP, CERM, 1 μF, 10 V, +/- 10%, X5R, 0603	MuRata	GRM185R61A105KE36D
5	2	0603	0.047uF	CAP, CERM, 0.047 μF, 50 V, +/- 10%, X7R, 0603	MuRata	GRM188R71H473KA61D
6	1	0805	2.2uF	CAP, CERM, 2.2 μF, 50 V, +/- 10%, X5R, 0805	TDK	C2012X5R1H225K125AB
7	3	0603	0.1uF	CAP, CERM, 0.1 μF, 50 V, +/- 10%, X7R, 0603	MuRata	GCM188R71H104KA57D
8	3	0805	1uF	CAP, CERM, 1uF, 50V, +/-10%, X7R, 0805	MuRata	GRM21BR71H105KA12L
9	2	0603	1000pF	CAP, CERM, 1000pF, 16V, +/-10%, X7R, 0603	MuRata	GRM188R71C102KA01D
10	1	0805	4.7uF	CAP, CERM, 4.7uF, 10V, +/-20%, X7R, 0805	TDK	C2012X7R1A475M
11	3	12.5x25mm	470uF	CAP, AL, 470 μF, 63 V, +/- 20%, 0.043 ohm, TH	Rubycon	63ZLH470M12.5X25
12	2	LED_0805	Red	LED, Red, SMD	Lite-On	LTST-C170KRKT

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number
13	1	Terminal Block, 5 mm, 2x1, TH		Terminal Block, 5 mm, 2x1, Tin, TH	Wurth Elektronik eiSos	691 101 710 002
14	1	Header, 50mil, 5x1, TH		Header, 50mil, 5x1, Gold, TH	Sullins Connector Solutions	GRPB051VWVN-RC
15	1	Terminal Block, 5 mm, 3x1, TH		Terminal Block, 5 mm, 3x1, Tin, TH	Wurth Elektronik eiSos	691 101 710 003
16	1	R/A 4x1 receptacle		SOCKET .050" GRID SIP 4 POS R/A, TH	Mill-Max	851-43-004-20-001000
17	6	SON 5x6mm	60V	MOSFET, N-CH, 60 V, 28 A, SON 5x6mm	Texas Instruments	CSD18540Q5B
18	13	0402	0	RES, 0, 5%, 0.063 W, 0402	Yageo America	RC0402JR-070RL
19	1	0402	100	RES, 100, 5%, 0.063 W, 0402	Vishay-Dale	CRCW0402100RJNED
20	1	2512	0.01	RES, 0.01, 1%, 2 W, 2512	Rohm	PMR100HZPFU10L0
21	2	0402	10k	RES, 10 k, 5%, 0.063 W, 0402	Vishay-Dale	CRCW040210K0JNED
22	1	0603	0	RES, 0 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06030000Z0EA
23	1	0603	47k	RES, 47k ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW060347K0JNEA
24	1	0603	330	RES, 330, 1%, 0.1 W, 0603	Yageo America	RC0603FR-07330RL
25	1	0603	1.5k	RES, 1.5 k, 5%, 0.1 W, 0603	Vishay-Dale	CRCW06031K50JNEA
26	1	0603	47k	RES 47K OHM 1/10W 5% 0603 SMD	Vishay-Dale	CRCW060347K0JNEA
27	1	Thumbwheel Trimmer	200k	Trimmer, 200 K, 0.5 W, TH	Bourns	3352P-1-204LF
28	3	0402	2.0k	RES, 2.0 k, 5%, 0.063 W, 0402	Vishay-Dale	CRCW04022K00JNED
29	1	SW, SPST 6x6 mm		SWITCH TACTILE SPST-NO 0.05A 12V	TE Connectivity	4-1437565-1
30	1	PW0020A		16 MHz Mixed Signal Microcontroller with 16 KB Flash, 512 B SRAM and 24 GPIOs, -40 to 85 degC, 20-pin SOP (PW), Green (RoHS & no Sb/Br)	Texas Instruments	MSP430G2553IPW20

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number
31	1	PHP0048G		Three Phase Automotive Gate Driver with Three Integrated Current Shunt Amplifiers and Voltage Regulator, PHP0048G	Texas Instruments	DRV83053EPHPRQ1
32	0	Fiducial		Fiducial mark. There is nothing to buy or mount.	N/A	N/A

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