

bq76pl536A BOM

COUNT	REFDES	Value	Description	SIZE	Part Number	MFR
1	C1	0.001uF	CAP CER X7R 20% 3KV	CAP1808	STD	STD
1	C13	150pF	CAP CER NPO 10% 50V	CAP0603	STD	STD
7	C21 C23 C25 C66 C68 C102 C104	1.0uF	CAP CER X7R 10% 16V	CAP0603	STD	STD
6	C14 C48 C61 C84 C95 C121	0.047uF	CAP CER X7R 10% 16V	CAP0603	STD	STD
3	C16 C62 C98	10uF	CAP CER X7R 10% 10V	CAP1206	STD	STD
9	C17 C19 C33 C63 C65 C73 C99 C101 C109	2.2uF	CAP CER X7R 10% 10V	CAP0805	STD	STD
51	C2 C4 C5 C9 C12 C18 C22 C24 C27 C28 C29 C31 C32 C34 C35 C36 C37 C40 C41 C47 C49 C51 C52 C55 C60 C64 C67 C69 C70 C71 C72 C74 C75 C76 C79 C81 C88 C91 C97 C100 C103 C105 C106 C107 C108 C110 C111 C112 C115 C118 C124	0.1uF	CAP CER X7R 10% 50V	CAP0603	STD	STD
2	C26 C30	10uF	CAP CER X7R 10% 10V	CAP0805	STD	STD
4	C3 C8 C11 C20	4.7uF	CAP CER X7R 10% 10V	CAP0603	STD	STD
16	C42 C45 C46 C50 C56 C57 C58 C59 C83 C85 C86 C87 C92 C93 C94 C96	33pF	CAP CER NPO 10% 50V	CAP0603	STD	STD
0	C44 C82 C119	DNP	CAP CER X7R 20% 50V	CAP1210	STD	STD
4	C53 C54 C89 C90	0.0033uF	CAP CER X7R 10% 50V	CAP0603	STD	STD
0	C6 C7 C10 C15 C38 C39 C43 C77 C78 C80 C113 C114 C116 C117 C120 C122 C123 C125	DNP	CAP CER X7R 10% 50V	CAP0603	STD	STD
2	D1 D2 **	30V	Schottky Diode 200mA	SOD-323	BAT54WS-TP	Micro Commercial
3	D3 D4 D5 **	YELLOW LED	LED YELLOW 38MCD SMD	SMT 0603 LED	LY L29K-H1K2-26-	OSRAM
0	J5	DNP	CONN JACK POWER 2.1MM P	2.1mmx5.5mm Jac	PJ102A	CUI Inc.

0	J1 J2 J3 J4 J6 J7 J10 J11 J12 J13 J14 J15 J16 J19 J20 J21 J22 J23	DNP	PCB Feature: Test Point 20mils diameter			
18	JP1 JP2 JP3 JP4 JP5 JP6 JP7 JP8 JP9 JP10 JP11 JP12 JP13 JP14 JP15 JP16 JP17 JP18	2 Pin Jumper	CONN HEADER 2POS .100" S	2P/SIP	90120-0762	Molex
2	JP19 JP20	3 Pin Jumper	CONN HEADER 3POS .100" S	3P/SIP	90120-0763	Molex
20	JP1 JP2 JP3 JP4 JP5 JP6 JP7 JP8 JP9 JP10 JP11 JP12 JP13 JP14 JP15 JP16 JP17 JP18 JP19 JP20	2 Pin Shunt	SHUNT 2POS .100" STR GOLD	2P/SHUNT	90059-0007	Molex
1	L1 **	10uH 200mA	SURFACE MOUNT CHIP INDUCTOR	IND0805	LBC2012T100K	Taiyo Yuden
1	P4	10 POS	MTA-100 HEADER STRAIGHT	10P/SIP	1-640454-0	AMP
1	P5	10Pin	CONN HEADER 10POS .100" S	10P/DIL	90131-0765	Molex
3	P1 P2 P3	7 POS	Terminal Block Header 7 Pos 3.5mm	395xx RA	39502-1007	Molex
3	P1A P2A P3A	7 POS	Terminal 7 Pos 3.5mm 16-28 AWG	395xx RA	39500-0007	Molex
3	P6-7 P10	DNP	CONN HEADER 10POS .100" S	10P/DIL	90131-0765	Molex
23	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q20 Q21 Q22 Q23 **	25V 5A RDS=27	N-Channel NexFET Power MOSFET	SON/8	CSD16301Q2	Texas Instruments
1	R17	2R0	RES 1/10W	RES0603	STD	STD
1	R19	1R0	RES 1/10W	RES0603	STD	STD
1	R34	169K	RES 1/10W	RES0603	STD	STD
1	R37	523K	RES 1/10W	RES0603	STD	STD
56	R1 R3 R18 R21-22 R27 R31 R38 R42 R52 R56 R73 R77 R82 R85-88 R94 R96-100 R102 R104 R113 R115 R120 R123 R129 R133 R140 R142 R144-148 R151 R154 R156- 159 R165 R168 R175 R179 R183 R185 R188 R191 R200 R202-203	1K	RES 1/10W	RES0603	STD	STD
0	R149 R90	DNP	RES 1/25W	RES0603	CRCW06030000Z0	Vishay/Dale
1	R180	1K	RES 1/8W 0.1%	RES0805	STD	STD

18	R2 R20 R30 R41 R55 R76 R95 R103 R114 R122 R132 R141 R153 R167 R178 R184 R190 R201	1M	RES 1/10W	RES0603	STD	STD
3	R24 R105 R169	1.6K	RES 1/10W	RES0603	STD	STD
6	R25 R69 R106 R139 R170 R199	1.47K	RES 1/10W	RES0603	STD	STD
4	R26 R49 R53 R60	10K	RES 1/10W	RES0603	STD	STD
6	R28 R67 R108 R118 R173 R182	100K	RES 1/10W	RES0603	STD	STD
12	R29 R48 R51 R58-59 R64 R70 R75 R79 R84 R109 R174	100	RES 1/10W	RES0603	STD	STD
6	R32 R61 R111 R134 R176 R192	1.82K	RES 1/10W	RES0603	STD	STD
18	R4 R23 R35 R46 R66 R81 R101 R107 R117 R124 R137 R143 R160 R172 R181 R187 R198 R216	47	RES 1W 5%	RES2512	STD	STD
5	R40 R89 R110 R150 R152	0R0	RES 1/4W	RES0603	CRCW06030000Z0	Vishay/Dale
17	R44 R50 R54 R65 R72 R80 R112 R116 R119 R121 R128 R131 R155 R163 R166 R171 R177	1K	RES 1/8W 0.1%	RES0805	STD	STD
0	R5-7 R16 R33 R39 R43 R45 R62-63 R74 R78 R83 R135- 136 R164 R193-194 R204 R213-215	DNP	RES 1/10W	RES0603	STD	STD
3	R68 R138 R195	0R0	RES 1/8W	RES0805	STD	STD
4	R71 R91-93	1.0M	RES 1/10W	RES0603	STD	STD
23	R8 R9 R10 R11 R12 R13 R14 R15 R36 R47 R57 R125 R130 R186 R189 R205 R206 R207 R208 R209 R210 R211 R212	0R0	RES 1/10W	RES0603	STD	STD
6	RT1 RT2 RT3 RT4 RT5 RT6	10K	THERMISTOR NTC 1%	NTC0603	ERT-J1VG103FA	Panasonic
1	T1 **	DuH 0.95DCR 1:1.3	MAIN ISOLATION XFRM CT:C	SMD-C	Q4470-CLD	Coilcraft

0	(TP1-3) (TP1-4) (TP1-7) (TP1-8) (TP1-11) (TP1-12) (TP2-1) (TP2-2) (TP2-5) (TP2-6) (TP2-9) (TP2-10)	DNP	PCB Feature: Test Point	PCB HOLE		
16	TP1 TP2 TP3 TP4 TP5 TP6 (TP-5IN) (TP-5OUT) (TP-AGND) (TP-VPROG1) (TP-VPROG2) (TP-VPROG3) (TP-VSS) (TP-VSS1) (TP-VSS2) (TP-VSS3)	White	(THM) Thru hole mount test point	Small Loop	5020	Keystone
0	TPA TPB TPC TPD	DNP	PCB Feature: Fiducial Mark	Round	FIDUCIAL_MARK	
1	U4 **	8 bit	Remote I2C expander	TSSOP16	PCA9557PWR	Texas Instruments
1	U7 **	PUSH-PULL PWM	LOW-POWER CURRENT MOD	SOIC8	UCC2808D-2	Texas Instruments
1	U8 **	5.0VDC	IC ADJ 100MA LDO REG	SOT-23-5	TPS76901DBVT	Texas Instruments
1	U12 **	3.3VDC	IC 100MA LDO REG	SOT-23-5	TPS76933DBVT	Texas Instruments
3	U1 U2 U3 **	4-6_LI_PR	4-6 cell Lithium protection IC	64 pin PQFP	bq76PL536PAP	Texas Instruments
2	U5-6 **	4CH 3KV	Quad Digital Isolator	PDSO16	ISO7241ADW or IS	Texas Instruments
4	X1-4	.26" round	FOOT/ROUND MOUNTING HO	.26"X.375"	9030	Keystone
18	Z1 Z3 Z5 Z7 Z9 Z12 Z14 Z16 Z18 Z20 Z22 Z25 Z27 Z29 Z31 Z33 Z35 Z38	5.1V	DIODE ZENER 500mW	SOD-123	BZT52H-C5V1_115	NXP
18	Z10 Z21 Z6 Z23 Z13 Z26 Z4 Z28 Z15 Z30 Z8 Z32 Z17 Z34 Z2 Z36 Z19 Z39	5.1V	DIODE ZENER 200mW	SOD-323	BZT52C5V1S-7-F	Diodes Inc
0	Z11 Z24 Z37	DNP	DIODE ZENER SOD 500mW	SOD-123	MMSZ5258BT1G	NXP
1	--	FR4	PCB, 7 ln x 5 ln x 0.062 ln		HPA507	Any
1	part of kitting	I2C/SPI	Aardvark embedded systems interface		TP240141	Total Phase