

Bill of Materials

PCB Name:
PCB Number:
PCB Revision:
BOM Number: PX-HERO Board P0012 F P0012 BOM Revision: F lite edition Variant: Date: 2020-01-19 Pieter Conradie 05 Engineer: Template revision

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#	Part ID	Quantity	Fitted	Group Desig	gnator Description	Footprint ID	Value	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1	Supplier 2	Supplier Part Number 2
1	CAP00001	13	Fitted	Electronics SMT C1, C2, C3, C4, C6, C8, C12, C1		0603	100n	SAMSUNG	CL10B104KO8NNWC	Digi-Key	1276-1939-1-ND	Mouser	603-CC603KRX7R7BB104
2	CAP00006	3	Fitted	Electronics SMT C5, C28, C36	Capacitor 0805 10u 10% X5R 16V	0805	10u	SAMSUNG	CL21A106KOQNNNG	Digi-Key	1276-6455-1-ND	Mouser	603-CC805KKX5R7BB106
3	CAP00002	3	Fitted	Electronics SMT C7, C22, C23	Capacitor 0603 1u 10% X5R 16V	0603	1u	SAMSUNG	CL10A105KO8NNNC	Digi-Key	1276-1034-1-ND	Mouser	603-CC603KRX5R7BB105
	CAP00014	2	Fitted	Electronics SMT C9, C10	Capacitor 0603 18p 5% COG 50V	0603	18p	Samsung	CL10C180JB8NNNC	Digi-Key	1.2.0	Mouser	603-CC603JRNPO9BN180
5	CAP00003	1	Fitted	Electronics SMT C34	Capacitor 0603 10n 10% X7R 50V	0603	10n	SAMSUNG	CL10B103KB8NCNC	Digi-Key	10.0	Mouser	603-CC603KRX7R9BB103
6	CAP00008	1	Fitted	Electronics SMT C35	Capacitor 0805 4u7 10% X5R 16V	0805	4u7	SAMSUNG	CL21A475KOFNNNE	Digi-Key	1276-1065-1-ND	Mouser	603-CC805KKX5R7BB475
7	OPT00020	1	Fitted	Electronics SMT D4	LED,SMD,0603,Red,99mcd,130deg	0603	LTST-C190KRKT	LITE-ON	LTST-C190KRKT	Digi-Key	160-1436-1-ND	Mouser	859-LTST-C190KRKT
	OPT00019	1	Fitted	Electronics THT DS1	128x64 Monochrome LCD with backlight	SMD	JHD12864-G176BSW	JHDLCM	JHD12864-G176BSW	Alibaba	positive replacement lcd display		
_	IND00001	3	Fitted	Electronics SMT FB1, FB3, FB4	Ferrite Bead 0603 BLM18BB151SN1D 20% 0.5A 150R	0603	BLM18AG151SN1D	Murata	BLM18AG151SN1D	Digi-Key	490-5244-1-ND	Mouser	81-BLM18AG151SN1D
	CON00050	1	Fitted	Kit H1	Header, 2x20, male THT, 2.54mm pitch, Vert/Straight, Gold Flash Overall, 6mm	Loudou	61304021121	Wurth	61304021121	Digi-Key	732-5310-ND	Mouser	710-61304021121
	CON00039	1	Fitted	Electronics SMT H2	Connector, 1x4, SMD, 1mm pitch, Wire to board connector	SMD	BM04B-SRSS-TB(LF)(SN		BM04B-SRSS-TB(LF)(SN)	Digi-Key	455-1790-1-ND		
-	CON00040	1	Fitted	NIK 1-1-	Connector, 1x4, Leaded, 2mm pitch, Wire to board connector Header, 1x4, SMD, 2.54mm pitch, Vertical	Leaded	110990030	Seeed	110990030	Seeed	110990030	Digi-Key	1597-1082-ND
	CON00043	1	Fitted	LIECTIONICS OWN	Header, 134, SMD, 2.54mm pitch, Vertical Header, 2x5, SMD, 1.27mm pitch, Vertical, Semi-shrouded with polarity	SMD	M20-8770442	Harwin	M20-8770442	Digi-Key		Mouser	855-M20-8770442
	CON00051	1	Fitted	Lieutonius Sivi		SMD	FTSH-105-01-L-DV-K-TF		FTSH-105-01-L-DV-K-TR	Digi-Key		Digi-Key	609-3729-ND
	CON00032	1	Fitted	Electronics SMT J1	Connector, 1x5, SMD&TH, 0.65mm pitch, Micro USB Receptacle type B Connector, 1x10, SMD, 1.1mm pitch, Micro SD Push-push connector	SMD	10118194-0001LF	FCi	10118194-0001LF	Digi-Key		Mouser	649-10118194-0001LF
	CON00046	1	Fitted	Electronics SWI	Connector, 1x10, SMD, 1: Infini pitch, which SD Push-push connector	SMD	TF-01	Shenzhen Best Electr		seeed	320090008		
	CON00037	1	Fitted	Electronics SW1	Inductor Polarized SMD 10u 20% 1.2A 0.18R	SMD	979-33-51061A	Samtec	ZF1-10-01-T-WT	Digi-Key	SAM10877-ND	Mouser	200-ZF11001TWT
	IND00012	1	Fitted	Electronics SMT L1	Speaker Leaded PS1240P02BT	SMD	10u	TAIYO YUDEN	NRS4018T100MDGJ	Digi-Key		Mouser	963-NRS4018T100MDGJ
	SEN00012	1	Fitted	Electronics SMT LS1 PCB PCB1	<u> '</u>	Leaded	PS1240P02BT	TDK	PS1240P02BT	Digi-Key	445-2525-1-ND	Mouser	810-PS1240P02BT
_	MEC00021	1	Fitted	1 00	P0014 ST STM32L072RB Hero Board Resistor SMD Metal Film 0603 4k7 1% 100mW		P0014						
	RES00004	3	Fitted		Resistor SMD Metal Film 0603 4k7 1% 100mW	0603	4k7	YAGEO	RC0603FR-074K7L	Digi-Key	311-4.70KHRCT-ND	Mouser	603-RC0603FR-074K7L
	RES00005	2	Fitted	Electronics SMT R3, R37 Electronics SMT R5, R12, R13, R20, R36	Resistor SMD Metal Film 0603 T0k 1% 100mW	0603	10k	YAGEO	RC0603FR-0710KL	Digi-Key	311-10.0KHRCT-ND	Mouser	603-RC0603FR-0710KL
=0	RES00006	5	Fitted		Resistor SMD Metal Film 0603 270R 1% 100mW	0603	56k	YAGEO	RC0603FR-0756KL	Digi-Key		Mouser	603-RC0603FR-0756KL
	RES00009	1	Fitted	Electronics SMT R6	Resistor SMD Metal Film 0603 27R 1% 100mW		270R	YAGEO	RC0603FR-07270RL	Digi-Key		Mouser	603-RC0603FR-07270RL
-	RES00003	1	Fitted	Lieutonius Sivi	Resistor SMD Metal Film 0603 2/R 1% 100mW		27R	YAGEO	RC0603FR-0727RL	Digi-Key		Mouser	603-RC0603FR-0727RL
26	RES00002	1	Fitted	Electronics SMT R25	Resistor SMD Metal Film 0603 1k 1% 100mW Resistor SMD Metal Film 0603 0k 1% 100mW	0603	1k	YAGEO	RC0603FR-071KL	Digi-Key	311-1.00KHRCT-ND	Mouser	603-RC0603FR-071KL
	RES00001	2	Fitted	LIECTOTICS OWT	Resistor SMD Metal Film 0603 0R 1% 100mW	0603	0R	YAGEO	RC0603FR-**0RL	Digi-Key	311-0.0HRTR-ND		
	RES00015	1	Fitted	Lieutonius Sivi	Push Button, SMD Gull Wing, SPST-NO, 6mm x 6mm outline, 5mm height; 13	0603	1M	YAGEO	RC0603FR-071ML	Digi-Key		Mouser	603-RC0603FR-071ML
	MEC00028	7	Fitted	Licotronico Omi	Ultra-low-power 32-bit MCU ARM Cortex-M0+, up to 128 KB Flash memory, 20	- 01110	PTS645SL50SMTR92 LF		PTS645SL50SMTR92 LFS	Digi-Key	CKN9088CT-ND	Mouser	611-PTS645SL50SMTR92
	IC00042	1	Fitted	Electionics Sivi	1-MHz, 350-mA, 3.3V Step-Down DC-DC Converter	Lui 1 04	STM32L072RBT6	ST Microelectronics	STM32L072RBT6	Digi-Key	101 11001110	Mouser	511-STM32L072RBT6
	IC00046	1	Fitted	Electronico Omi	1-MHz, 350-mA, 3.3V Step-Down DC-DC Converter 4-Mbit 2.5V SPI Serial Flash Memory	SOT23-5	LM3670MF-3.3/NOPB	Texas Instruments	LM3670MF-3.3/NOPB	Digi-Key		Mouser	926-LM3670MF33NOPB
	IC00045	1	Fitted	Electionics Sivi	Crystal SMD 32.768kHz 20ppm -40/85C 12.5pF	S08	AT25SF041-SSHD-B	adesto	AT25SF041-SSHD-B	Digi-Key	1265-1174-5-ND	Mouser	988-AT25SF041-SSHD-B
	OSC00003	1	Fitted	Electronics SMT Y1	Capacitor 0603 100n 10% X7R 16V	SMD	32.768kHz	WTL	WTL1M32122	Digi-Key		Digi-Key	G83270021CT-ND
-	CAP00001	0	Not Fitted	Electronics SMT C11, C14, C15, C24 Electronics SMT C16, C37	Capacitor 0603 100 10% X7R 16V	0603	100n	SAMSUNG	CL10B104KO8NNWC	Digi-Key		Mouser	603-CC603KRX7R7BB104
	CAP00003	0	Not Fitted	Licotronico Omi	Capacitor 0805 4u7 10% X7K 50V	0603	10n	SAMSUNG	CL10B103KB8NCNC	Digi-Key	10.0	Mouser	603-CC603KRX7R9BB103
	CAP00008	10	Not Fitted	Electronico Omi	Capacitor 0603 47n 5% COG 50V	0805	4u7	SAMSUNG	CL21A475KOFNNNE	Digi-Key	1.2.2.1.000	Mouser	603-CC805KKX5R7BB475
	CAP00004	0	Not Fitted	Electronico Ciri	Capacitor 0805 100n 10% X7R 16V	0603	47p	Kemet	C0603C470J5GAC	Digi-Key	399-1056-1-ND	Mouser	603-CC201JRNPO9BN470
	CAP00012	0	Not Fitted		LED.SMD.0603.Red.99mcd.130deg	0805	100n	Kemet	C0805X104K4RACTU	Digi-Key		Mouser	603-CC805KRX7R7BB104
	OPT00020	0		Lieutonius Sivi	Diode Schottky Dual Common Anode-Cathode SOT23 BAS40-04 0.12A 40V	0603	LTST-C190KRKT	LITE-ON	LTST-C190KRKT	Digi-Key		Mouser	859-LTST-C190KRKT
1.0	DIO00002	0	Not Fitted	Electronics SW1 ==	Diode Schottky Dual Common Cathode SOT23 BAS40-05 0.12A 40V	SOT23	BAS40-04	Diodes Inc.	BAS40-04-7-F	Digi-Key		Digi-Key	BAS40-04HMFHT116CT-ND
4.	DIO00007	0	Not Fitted	Licotronico Omi	Diode Schottky SMA B140-13-E 1A 40V	SOT23	BAS40-05	TOT IIII	BAS40-05HMFHT116	Digi-Key		Mouser	621-BAS40-05-F
	DIO00001	0	Not Fitted	Liectionics Sivii =-	Ferrite Bead 0603 BLM18BB151SN1D 20% 0.5A 150R	SMA	B140-13-F	Diodes Inc.	B140-13-F	Digi-Key	B140-FDICT-ND	Mouser	512-SS14
1.0	IND00001	0	Not Fitted		Header, 1x5, Leaded, 2,54mm pitch, Vertical	0603	BLM18AG151SN1D	Murata	BLM18AG151SN1D	Digi-Key	100 02 11 1102	Mouser	81-BLM18AG151SN1D
	CON00012 CON00007	0	Not Fitted Not Fitted	Electronics 1111	Header, 1x2, Vertical, 2.54mm pitch	Leaded Leaded	210-71-05GB01 210-71-02GB01	Pinrex Pinrex	210-71-05GB01 210-71-02GB01	Digi-Key	732-5318-ND 732-5315-ND	Mouser	M20-9990546
	CON00007	0		Kit H8	Connector, 1x3, Leaded Vertical, 2mm pitch, Wire to board connector	Leaded		Molex		Digi-Key		DCC	200 2202
46	CON00011 CON00014	0	Not Fitted Not Fitted	Kit H9	Connector, 1x2, Leaded Vertical, 2mm pitch, Wire to board connector	Leaded	53253-0370 B2B-PH-K-S	JST	53253-0370 B2B-PH-K-S	Digi-Key		RSComponents	688-3283 546-8883
		0		NR .	Header, 1x3, Leaded, 2,54mm pitch, Vertical					Digi-Key		RSComponents	J40-0003
	CON00033	0	Not Fitted	Kit 1115	Connector, 1x5, SMD&TH, 0.65mm pitch, Micro USB Receptacle type B	Leaded	210-71-03GB01	Pinrex	210-71-03GB01	Digi-Key	732-5316-ND		640 40440404 00041 F
49	CON00032	Į U	INOT FITTED	Lieutonius Sivi	Jumper, 2 Way, 2.54mm	SMD	10118194-0001LF QPC02SXGN-RC	FCi	10118194-0001LF QPC02SXGN-RC	Digi-Key		Mouser Communica	649-10118194-0001LF 7021JBK
60	CONIDODO	0	Not Eittod					Jounnals	JULY COZONOW-RC	Digi-Key	UNION THU		I TUZ IJDN
-	CON00029	0		Kit JP7, JP10, JP11, JP12		CMD		14	DIVI CC4040E4004 D4		400 4000 4 ND		754 4000
51	SEN00007	0	Not Fitted	Electronics SMT LS2	Speaker SMD PKLCS1212E4001-R1	SMD	PKLCS1212E4001-R1	Murata	PKLCS1212E4001-R1	Digi-Key		RSComponents	754-1980
51 52	SEN00007 TRA00004	0 0	Not Fitted Not Fitted	Electronics SMT LS2 Electronics SMT Q1	Speaker SMD PKLCS1212E4001-R1 MOSFET P SOT23 DMP2305U-7 4.2A 20V	SOT23	PKLCS1212E4001-R1 DMP2305U-7	Diodes Inc.	DMP2305U-7	Digi-Key Digi-Key	DMP2305UDICT-ND	RSComponents Mouser	621-DMP2305U-7
51 52 53	SEN00007 TRA00004 TRA00003	0 0 0	Not Fitted Not Fitted Not Fitted	Electronics SMT LS2 Electronics SMT Q1 Electronics SMT Q2, Q3	Speaker SMD PHLOS12/12E4001-R1 MOSFET P SOT23 DMP2309U-74 4.2A 20V MOSFET P SOT23 BSS44 0.13A 50V	SOT23 SOT23	PKLCS1212E4001-R1 DMP2305U-7 BSS84	Diodes Inc.	DMP2305U-7 BSS84-7-F	Digi-Key Digi-Key Digi-Key	DMP2305UDICT-ND BSS84-FDICT-ND	RSComponents Mouser Mouser	621-DMP2305U-7 621-BSS84-F
51 52 53 54	SEN00007 TRA00004 TRA00003 TRA00009	0 0 0 0	Not Fitted Not Fitted Not Fitted Not Fitted	Electronics SMT LS2 Electronics SMT Q1 Electronics SMT Q2, Q3 Electronics SMT Q4	Speaker SMD PKLCS1212E4001-R1 MOSFET P S0T23 DMP3395U-7 42A 20V MOSFET P S0T23 BS884 0.13A 50V MOSFET N S0T23 BSS139 0.2A 50V	SOT23 SOT23 SOT23	PKLCS1212E4001-R1 DMP2305U-7 BSS84 BSS138	Diodes Inc. Diodes Inc. Diodes Inc.	DMP2305U-7 BSS84-7-F BSS138-7-F	Digi-Key Digi-Key Digi-Key Digi-Key	DMP2305UDICT-ND BSS84-FDICT-ND BSS138-FDICT-ND	RSComponents Mouser Mouser Mouser	621-DMP2305U-7 621-BSS84-F 621-BSS138-7-F
51 52 53 54 55	SEN00007 TRA00004 TRA00003 TRA00009 RES00003	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Not Fitted Not Fitted Not Fitted Not Fitted Not Fitted	Electronics SMT	Speaker SMD PMLCS1212E4001-R1	SOT23 SOT23 SOT23 0603	PKLCS1212E4001-R1 DMP2305U-7 BSS84 BSS138 27R	Diodes Inc. Diodes Inc. Diodes Inc. YAGEO	DMP2305U-7 BSS84-7-F BSS138-7-F RC0603FR-0727RL	Digi-Key Digi-Key Digi-Key Digi-Key Digi-Key	DMP2305UDICT-ND BSS84-FDICT-ND BSS138-FDICT-ND 311-27.0HRCT-ND	RSComponents Mouser Mouser Mouser Mouser	621-DMP2305U-7 621-BSS84-F 621-BSS138-7-F 603-RC0603FR-0727RL
51 52 53 54 55 56	SEN00007 TRA00004 TRA00003 TRA00009 RES00003 RES00002	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Not Fitted Not Fitted Not Fitted Not Fitted Not Fitted Not Fitted	Electronics SMT LS2 Electronics SMT Q1 Electronics SMT Q2, Q3 Electronics SMT Q4 Electronics SMT R7, R8 Electronics SMT R9, R10, R11, R28, R29	Speaker SMD PKLCS1212E4001-R1	SOT23 SOT23 SOT23 0603 0603	PKLCS1212E4001-R1 DMP2305U-7 BSS84 BSS138 27R	Diodes Inc. Diodes Inc. Diodes Inc. YAGEO YAGEO	DMP2305U-7 BSS84-7-F BSS138-7-F RC0603FR-0727RL RC0603FR-071KL	Digi-Key Digi-Key Digi-Key Digi-Key Digi-Key Digi-Key Digi-Key	DMP2305UDICT-ND BSS84-FDICT-ND BSS138-FDICT-ND 311-27.0HRCT-ND 311-1.00KHRCT-ND	RSComponents Mouser Mouser Mouser Mouser Mouser Mouser	621-DMP2305U-7 621-BSS84-F 621-BSS138-7-F 603-RC0603FR-0727RL 603-RC0603FR-071KL
51 52 53 54 55 56 57	SEN00007 TRA00004 TRA00003 TRA00009 RES00003 RES00002 RES00006	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Not Fitted Not Fitted Not Fitted Not Fitted Not Fitted Not Fitted Not Fitted	Electronics SMT	Speaker SMD PMLCS1212E4001-R1	\$0723 \$0723 \$0723 \$0603 0603 0603	PKLCS1212E4001-R1 DMP2305U-7 BSS84 BSS138 27R 1k 56k	Diodes Inc. Diodes Inc. Diodes Inc. YAGEO YAGEO YAGEO	DMP2305U-7 BSS84-7-F BSS138-7-F RC0603FR-0727RL RC0603FR-071KL RC0603FR-0756KL	Digi-Key Digi-Key Digi-Key Digi-Key Digi-Key Digi-Key Digi-Key Digi-Key Digi-Key	DMP2305UDICT-ND BSS84-FDICT-ND BSS138-FDICT-ND 311-27.0HRCT-ND 311-1.00KHRCT-ND 311-56KHRCT-ND	RSComponents Mouser Mouser Mouser Mouser	621-DMP2305U-7 621-BSS84-F 621-BSS138-7-F 603-RC0603FR-0727RL
51 52 53 54 55 56 57 58	SEN00007 TRA00004 TRA00003 TRA00009 RES00003 RES00002 RES00006 RES00008	0 0 0 0 0 0 0	Not Fitted Not Fitted Not Fitted Not Fitted Not Fitted Not Fitted Not Fitted Not Fitted	Electronics SMT LS2 Electronics SMT Q1 Electronics SMT Q2 Electronics SMT Q2 Electronics SMT Q4 Electronics SMT R7, R8 Electronics SMT R9, R10, R11, R28, R29 Electronics SMT R11, R30, R32, R34, R38 Electronics SMT R17, R18, R33, R24	Speaker SMD PMLCS1212E4001-F1	SOT23 SOT23 SOT23 0603 0603 0603 0805	PKLCS1212E4001-R1 DMP2305U-7 BSS84 BSS138 27R 1k 56k 1k	Diodes Inc. Diodes Inc. Diodes Inc. YAGEO YAGEO YAGEO YAGEO	DMP2305U-7 BSS84-7-F BSS138-7-F RC0603FR-0727RL RC0603FR-071KL RC0603FR-0756KL RC0805FR-**1KL	Digi-Key	DMP2305UDICT-ND BSS84-FDICT-ND BSS138-FDICT-ND 311-27.0HRCT-ND 311-10.0KHRCT-ND 311-56KHRCT-ND 311-1.00KCRTR-ND	RSComponents Mouser Mouser Mouser Mouser Mouser Mouser Mouser Mouser	621-DMP2305U-7 621-BSS384-F 621-BSS138-7-F 603-RC0603FR-0727RL 603-RC0603FR-071KL 603-RC0603FR-0756KL
51 52 53 54 55 56 57 58	SEN00007 TRA00004 TRA00003 TRA00009 RES00003 RES00002 RES00006 RES00008 RES00019	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Not Fitted Not Fitted	Electronics SMT	Speaker SMD PKLCS1212E4001-R1	SOT23 SOT23 SOT23 0603 0603 0603 0603	PKLCS1212E4001-R1 DMP2305U-7 BSS84 BSS8138 27R 1k 56k 1k 36k	Diodes Inc. Diodes Inc. Diodes Inc. YAGEO YAGEO YAGEO YAGEO YAGEO YAGEO	DMP2305U-7 BS884-7-F BS8138-7-F RC0603FR-0727RL RC0603FR-071KL RC0603FR-0756KL RC0603FR-"**IKL RC0603FR-"**IKL	Digi-Key	DMP230SUDICT-ND BSS84-FDICT-ND BSS138-FDICT-ND 311-27.0HRCT-ND 311-27.0HRCT-ND 311-50KHRCT-ND 311-100KHRCT-ND 311-100KCRTR-ND 311-106.0KHRCT-ND	RSComponents Mouser Mouser Mouser Mouser Mouser Mouser Mouser Mouser Mouser	621-DMP2305U-7 621-BSS84-F 621-BSS138-7-F 603-RC0603FR-0727RL 603-RC0603FR-071KL 603-RC0603FR-0756KL
51 52 53 54 55 56 57 58 59 60	SEN00007 TRA00004 TRA00003 TRA00009 RES00003 RES00002 RES00006 RES00008 RES00019 RES00005	0 0 0 0 0 0 0 0 0 0	Not Fitted	Electronics SMT LS2	Speaker SMD PMCGS12/EE4001-R1	SOT23 SOT23 SOT23 0603 0603 0603 0605 0603	PKLCS1212E4001-R1 DMP2305U-7 BSS84 BSS138 27R 1k 56k 1k 36k	Diodes Inc. Diodes Inc. Diodes Inc. YAGEO YAGEO YAGEO YAGEO YAGEO YAGEO YAGEO YAGEO	DMP2305U-7 BSS84-7-F BSS84-7-F RC0603FR-0727RL RC0603FR-0771KL RC0603FR-0756KL RC0603FR-1*1KL RC0603FR-0736KL RC0603FR-0736KL RC0603FR-0736KL	Digi-Key	DMP2305UDICT-ND BSS138-FDICT-ND BSS138-FDICT-ND 311-27.0HRCT-ND 311-1.00KHRCT-ND 311-58KHRCT-ND 311-1.00KCRTR-ND 311-1.00KCRTR-ND 311-1.00KCRTR-ND 311-1.00KCRTR-ND	RSComponents Mouser	621-DMP2305U-7 621-BSS84-F 621-BSS138-7-F 603-RC0603FR-0727RL 603-RC0603FR-0756KL 603-RC0603FR-0756KL 603-RC0603FR-0736KL 603-RC0603FR-0736KL 603-RC0603FR-0710KL
51 52 53 54 55 56 57 58 59 60 61	SEN00007 TRA00004 TRA00003 TRA00009 RES00002 RES00002 RES00008 RES00008 RES00019 RES00005 ICO0012	0 0 0 0 0 0 0 0 0 0 0	Not Fitted	Electronics SMT L82	Speaker SMD PKLCS1212E4001-F1 MOSFET P S01723 DMP230SU-7 4 2A 20V MOSFET P S01723 SSSN 0 13A 50V MOSFET N S01723 SSS138 0 2A 50V Resistor SMD Metal Film 0603 78 ft % 100mW Resistor SMD Metal Film 0603 78 ft % 100mW Resistor SMD Metal Film 0603 78 ft % 100mW Resistor SMD Metal Film 0603 58 ft % 1525mW Resistor SMD Metal Film 0603 58 ft % 100mW Resistor SMD Metal Film 0603 38 ft % 100mW Resistor SMD Metal Film 0603 38 ft % 100mW Resistor SMD Metal Film 0603 38 ft % 100mW Resistor SMD Metal Film 0603 38 ft % 100mW Resistor SMD Metal Film 0603 38 ft % 100mW Single-Cell, Fully Integrated Li-lon LF-Dymer Charge Management Controller	SOT23 SOT23 SOT23 0603 0603 0603 0805 0603 0603 0603 SOT23-5	PKLCS1212E4001-R1 DMP220SU-7 BSS84 BSS138 27R 1k 56k 1k 36k 10k MCP73831T-2ATIOT	Diodes Inc. Diodes Inc. Diodes Inc. Diodes Inc. VAGEO YAGEO YAGEO YAGEO YAGEO YAGEO YAGEO Microchip	DMP2005U-7 BSS847-F BSS183-F-F RC0603FR-0727RL RC0603FR-071KL RC0603FR-071KL RC0603FR-0756KL RC0603FR-0736KL RC0603FR-0736KL RC0603FR-0710KL MCP78831T-2ATUOT	Digi-Key	DMP2305UDICT-ND BSS18-FDICT-ND BSS18-FDICT-ND 311-27.0HRCT-ND 311-100KHRCT-ND 311-5RKHRCT-ND 311-100KCRTR-ND 311-30.0KHRCT-ND 311-100KRRT-ND MSS18-FRET-ND MSS18-FRET-ND MCP73831T-2ATI/OTCT-ND	RSComponents Mouser	621-DMP2305U-7 621-BSS84-F 621-BSS138-7-F 603-RC0603FR-0727RL 603-RC0603FR-071KL 603-RC0603FR-0756KL
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51 52 53 54 55 56 57 58 59 60 61 62 63	SEN00007 TRA00004 TRA00003 TRA00009 RES00002 RES00002 RES00008 RES00008 RES00019 RES00005 ICO0012	0 0 0 0 0 0 0 0 0 0 0 0 0	Not Fitted	Electronics SMT L82	Speaker SMD PKLCS1212E4001-F1 MOSFET P S01723 DMP230SU-7 4 2A 20V MOSFET P S01723 SSSN 0 13A 50V MOSFET N S01723 SSS138 0 2A 50V Resistor SMD Metal Film 0603 78 ft % 100mW Resistor SMD Metal Film 0603 78 ft % 100mW Resistor SMD Metal Film 0603 78 ft % 100mW Resistor SMD Metal Film 0603 58 ft % 1525mW Resistor SMD Metal Film 0603 58 ft % 100mW Resistor SMD Metal Film 0603 38 ft % 100mW Resistor SMD Metal Film 0603 38 ft % 100mW Resistor SMD Metal Film 0603 38 ft % 100mW Resistor SMD Metal Film 0603 38 ft % 100mW Resistor SMD Metal Film 0603 38 ft % 100mW Single-Cell, Fully Integrated Li-lon LF-Dymer Charge Management Controller	SOT23 SOT23 SOT23 0603 0603 0603 0805 0603 0603 0603 SOT23-5	PKLCS1212E4001-R1 DMP220SU-7 BSS84 BSS138 27R 1k 56k 1k 36k 10k MCP73831T-2ATIOT	Diodes Inc. Diodes Inc. Diodes Inc. Diodes Inc. Diodes Inc. YAGEO YAGEO YAGEO YAGEO YAGEO YAGEO YAGEO Warde Wurth FTDI Chip	DMP2005U-7 BSS847-F BSS183-F-F RC0603FR-0727RL RC0603FR-071KL RC0603FR-071KL RC0603FR-0756KL RC0603FR-0736KL RC0603FR-0736KL RC0603FR-0710KL MCP78831T-2ATUOT	Digi-Key	DMP2095UDICT-ND BSS84FDICT-ND BSS138-FDICT-ND 311-27.0HRCT-ND 311-1.00HRCT-ND 311-50KHRCT-ND 311-50KHRCT-ND 311-50KHRCT-ND 311-50KHRCT-ND MCP73831T-2ATI/OTCT-ND 732-4473-1-ND 758-1135-1-ND	RSComponents Mouser	621-DMP2305U-7 621-BSS84-F 621-BSS138-7-F 603-RC0603FR-0727RL 603-RC0603FR-0756KL 603-RC0603FR-0756KL 603-RC0603FR-0736KL 603-RC0603FR-0736KL 603-RC0603FR-0710KL