





Comment	Description	Designator	Footprint	UbRef	Manufacturer 1	Manufacturer Part Number 1	Quantity	Supplier 1	Supplier Currency	Supplier Order Oty	Supplier Part Number 1	Supplier Stock 1	Supplier Subtotal	Supplier Unit Price
	Lithium Pattery													
CR1225	Non-Rechargeable (Primary) 3V Coin, 12.5mm	Batt1	Battery Clip - CR1225	CR2032 Battery Holder	Linx	BAT-HLD-012-SMT	1	Digi-Key	USD	1	BAT-HLD-012-SMT- ND	897	0.28	0.28
	CAP CER 0.1UF 50V X7R 0603, CAP CER 0.1UF 50V													
	10% X7R 0603, CAP CER 0.1UF 50V													
	CER 0.1UF 50V X7R 0603, CAP CER													
	0.1UF 50V X7R 0603, CAP CER 0.1UF 50V 10%	C1, C6, C8, C9,				GRM188R71H104K								
0.1uF	X7R 0603 22µF ±20% 25V Ceramic Capacitor	C11, C15	0603	Cap	Murata	A93D		Digi-Key	USD	6	490-1519-1-ND	10660764	0.72	0.12
22uF	X5R 1206 (3216 Metric) Aluminum	C2, C12, C16, C17	1206	Cap	Murata	GRT31CR61E226M E01L	4	Digi-Key	USD	4	490-12451-1-ND	12194	2.2	0.55
	Electrolytic													
100uF	Can - SMD 5000 Hrs @ 105°C 10µF ±20% 25V Ceramic Capacitor	C3	Elec. Cap - G	Tantalum Cap_1	Panasonic ECG	EEE-HC1H101P	1	Digi-Key	USD	1	P19732CT-ND	3527	0.83	0.83
10uF	X5R 0603 (1608 Metric)	C4	0603	Cap	Murata	GRT188R61E106M E13D	1	Digi-Key	usp	1	490-12323-1-ND	61832	0.55	0.55
	10µF ±20% 50V Ceramic Capacitor X5R 1206 (3216					GRT31CR61H106M								
10uF	Metric) 1µF ±20% 50V Ceramic Capacitor	C5, C7	1206	Cap	Murata	E01L	2	Digi-Key	USD	2	490-12457-1-ND	4586	0.96	0.48
Tuf	X5R 0603 (1608 Metric) CAP CER 18PF 50V	C10	0603	Cap	Murata	GRT188R61H105M E13D C0603C18D15GAC	1	Digi-Key	usp	1	490-12331-1-ND	1298	0.27	0.27
18pF	5% NP0 0603 LED GREEN	C13, C14	0603	Cap	KEMET	TU 18035GAC-	2	Digi-Key	USD	2	399-1052-1-ND	260284	0.2	0.1
Green	DIFFUSED 0805 SMD LED RED	D1	0805 Polarized	LED - SMD	Osram Opto	LGR971-KN-1	1	Digi-Key	USD	1	475-1410-1-ND	280047	0.26	0.26
Red	DIFFUSED 0805 SMD Diode Schottky	D2	0805 Polarized	LED - SMD	Osram Opto	LSR976-NR-1	1	Digi-Key	usp	1	475-1278-1-ND	363028	0.26	0.26
ACURA107-HF	1000V 1A Surface Mount DO-214AC (SMA)	D3, D5	SMA with A and K	Schottky Diode	Loading	Loading	,	Digi-Key	Loading		641-1884-1-ND			
Vollous	LED YELLOW DIFFUSED 0805	D4							usp					
Yellow Header 4	SMD Header, 4-Pin Receptacle	IZC, P1, UARTI	0805 Polarized HDR1X4	LED - SMD Header 4	Osram Opto	LYR976-PS-36	3	Digi-Key	U3U	'	475-2560-1-ND	143844	0.27	0.27
Vehicle Interface Cable Connector	Receptacle Assembly, 15 Position, Right Angle	л	DSUB1.385-2H15	D Connector 15	Amphenol FCI	D15S33E4GV00LF	,	I Digi-Key	USD	,	609-1498-ND	1063	2.24	2.24
	CONN HEADER PH SIDE 3POS 2MM SMD	p2	MHDR1X3	MHDR1X3	IST ST	S3B-PH-SM4- TB(LF)(SN)		Digi-Key	USD		455-1750-1-ND	25283	0.69	0.69
Header 2	Header, 2-Pin PTC RESTTBLE	P2 P3, SW20, SW21	MHDR1X3 HDR1X2	MHDR1X3 Header 2		rp.s p(SPN)		Jung root y			1730-1-ND	25283	0.69	U.69
PTC RESTIBLE 0.75A	0.75A 33V CHIP 1812	PTC1	1812	PTC	Bel	0ZCG00758F2B	1	Digi-Key	USD	1	507-1765-1-ND	345670	0.21	0.21
	Chip Resistor 0603 (1608 Metric) Automotive AEC-													
4.7k	Q200, High Voltage Thick Film	R1, R4, R7, R10, R21, R22	0603	Chip Resistor	Rohm	KTR03EZPF4701	6	i Digi-Key	USD	6	RHM4.7KAYCT-ND	15206	0.96	0.16
	330 Ohms ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric)													
	Automotive AEC- Q200. High	R2, R3, R18, R19,												
330	Voltage Thick Film	R20	0603	Chip Resistor	Rohm	KTR03EZPF3300	5	Digi-Key	USD	5	RHM330AYCT-ND	6190	0.8	0.16
	Chip Resistor 0603 (1608 Metric) Automotive AEC- 0200. High													
47	Q200, High Voltage Thick Film ±1% 0.1W, 1/10W	R5, R6, R24, R25	0603	Chip Resistor	Rohm	KTR03EZPF47R0	4	Digi-Key	USD	4	RHM47AYCT-ND	9530	0.64	0.16
	Chip Resistor 0603 (1608 Metric) Automotive AEC-	R8, R9, R11, R12, R13, R16, R17,												
100k	O200, High Voltage Thick Film RES SMD 47 OHM	R23, R26	0603	Chip Resistor	Rohm	KTR03EZPF1003	9	Digi-Key	usp	9	RHM100KAYCT-ND	15209	1.44	0.16
DNP Header 6	1% 1/10W 0603 Header, 6-Pin PTS645 Series 6	R14, R15 SPI1	0603 HDR1X6	Chip Resistor Header 6	Panasonic ECG	ERJ-3EKF47ROV PTS645SM43SMTR	1	Digi-Key	USD	1	P47.0HCT-ND	372248	0.2	0.1
PTS645	mm Tact Switches 24 Position Header Connector	SW1	Switch PTS645	Switch - Tactile_1	ITT C&K	92LFS	1	Digi-Key	USD	1	CKN9112CT-ND	319871	0.16	0.16
Teensy 3.6	0.100" (2.54mm) Through Hole		Teensy 3.6 Through Hole - No	Teensy 3.6										
Through Hole	Gold 34.5V 80A Varistor 1 Circuit Surface	Teensy 1	Labels	Through Hole	Sullins	PPPC241LFBN-RC	'	Digi-Key	USD	1	\$7057-ND	2425	1.43	1.43
Varistor 26V	Mount 0805 (2012 Metric) 5V DC/DC	TVS1	Transfeed	Transfeed	Kyocera AVX	V2AF126C600Y2ED P		Digi-Key	USD	1	478-10038-1-ND	2000	0.78	0.78
OKI-78SR	Converter (7805 replacement)	U1	OKI-78SR	7805	Murata	OKI-78SR-5/1.5- W36H-C	1	Digi-Key	USD	1	811-2692-ND	9345	4.3	4.3
NCVIDEADIDIC	Single Wire CAN Transceiver, 5 to 27 V, 8-Pin SOIC, Ph Free Tube	112	ONSC-SOIC-8-751-	NCV7356D1G	ON Somiconductor	MCM3264D1D3C		Digi Kov	usp		NCV7356D1R2GOS		,	,
NCV7356D1R2G 74AHCT1G14	IC SCHMIT-TRIGG INV GATE SOT353	U2 U3	07_V SOT-353	74AHCT1G14 Inverter	Semiconductor Diodes	NCV7356D1R2G 74AHCT1G14SE-7	1	Digi-Key Digi-Key	USD	1	CT-ND 74AHCT1G14SE- 7DICT-ND	6964	0.25	0.25
SN75HVD08DR	IC RS485 TXRX 3/5V 8-SOIC	U4	SOIC-SNB_N	SN75HVD12D (3.3v RS485)	Texas Instruments	SN75HVD08DR	1	Digi-Key	USD	1	296-37893-1-ND	16989	4.06	4.06
MCP2558 ADG1634BCPZ-	Microchip CAN FD Transceiver with Silent Mode IC SWITCH QUAD	U5, U8, U9	TDFN	MCP2558FD ADG1634BCPZ-	Loading	Loading ADG1634BCPZ-	3	Arrow	Loading		MCP2558FDT- H/MNY ADG1634BCPZ-			
REEL7	SPDT 20LF CSP LIN J2602	U6	ADI-CP-20-4_N	REEL7	Analog Devices	REEL7	1	Digi-Key	USD	1	REEL7CT-ND	3346	6.48	6.48
MCP2003A_F/SN	Transceiver, 8-Pin SOIC, Extended Temperature, Tape and Reel		SOIC, SNR N	MCP2003AT-E/SN	Microchip	MCP2003A,F/SN		Diel Ken	USD		MCP2003A-E/SN- ND	2717	0.86	0.86
wicP2003A-E/SN	Smart Low-Side	01	SUIC-SN8_N	www.P2UUSAT-E/SN	многоспір	nn.HZUUSA-E/SN	1	Digi-Key	USD	<u>'</u>	mi)	2717	0.86	0.86
	HITFET, 60 V VDS, 12 A ID, -40 to 150 degC, PG-TO263-3-		INF-PG-TO263-3-											
BTS141TC ATML-ATWINC1500-	2, Reel, Green SMARTCONNECT ATWINC1500B-MU-	U10	2_N ATML-ATWINC1500	BTS141TC ATML-ATWINC1500	Infineon	BTS141TC	1	Digi-Key	USD	1	BTS141TCTR-ND ATWINC1510-	1000		
MR210PA-28	T MO Optoisolator Transistor Output	U11	MR210PA-28_V	MR210PA-28	Loading	Loading	1	Digi-Key	Loading		MR210PB1140-ND			
MOCD207R2M	Transistor Output 2500Vrms 2 Channel 8-SO Tall	U12	SOIC-8	Optoisolator - Dual	Fairchild Semiconductor	MOCD207R2-M	1	Digi-Key	USD	1	MOCD207R2MCT- ND	94330	1.34	1.34
	Linear Voltage Regulator IC Positive Fixed				_				I					
NCP1117LPST33	Output 3.3V 1A SOT-223 CAN Controller	U13	SOT-223	NCP1117 2.5V	ON Semiconductor	NCP1117LPST33T3 G	1	Digi-Key	USD	1	NCP1117LPST33T3 GOSCT-ND	6531	0.49	0.49
MCP2515-E/ML	CAN 2.0 SPI Interface 20-QFN (4x4)	U14	QFN-ML20_M	MCP2515-E/ML	Microchip	MCP2515-E/ML	,	I Digi-Key	USD	,	MCP2515-E/ML-ND	661	2.28	2.28
	Authentication Chip IC Networking and							1				001	2.20	2.20
ATECC508A	Communications 8- SOIC	U15	SOIC-8	ATECC50BA	Microchip / Atmel	ATECC508A-SSHDA T	1	Digi-Key	usp	1	ATECC508A-SSHDA TCT-ND	7041	0.82	0.82
	USB - mini B USB 2.0 Receptacle Connector 5 Position Surface													
	Position Surface Mount, Right Angle: Through													
UX60SC-MB-5S8	Hole CONN HEADER FEMALE 6POS .1*	USB1		USB-Rugged	Hirose	UX60SC-MB-5S8	1	Digi-Key	USD	1	H11589CT-ND	12732	1.05	1.05
DNP 1444Hr	GOLD CRYSTAL 16MHZ 18PF SMD	WIFI	HDR1X6	Header 6	Sullins	PPPC061LFBN-RC 7A-16.000MAAJ-T	1	Digi-Key	USD	1	\$7039-ND	9261	0.53	0.53
16MHz	TVS DIODE 20WM 36.8VC	AT.	XTAL 2 pad	Crystal Oscillator Zener -			1	Digi-Key		1	887-1086-1-ND SMA6J24CA-	30471	0.72	0.72
SMA6J	SMA	Z1	SMA	Bidirectional	MCC	SMA6J24CA-TP	1	Digi-Key	USD	1	TPMSCT-ND	٥	0.49	0.49