Comment	Description	Designator	Footprint MOTOR_PLUG_F_3	LibRef	Manufacturer 1	Manufacturer Part Number 1	Quantity	Supplier 1	Supplier Currency 1	Supplier Order Oty 1	Supplier Part Number 1	Supplier Stock 1	Supplier Subtotal	Supplier Unit Price 1	Value
BATT LTC7103	Socket	+ 5V_BUCK	.5 LTC7103	Socket LTC7103	LINEAR TECHNOLOGY	LTC7103IUHE#PBF	1	Newark	USD	5000	24AC4318	0	40250	8.05	
Motor_pad	Socket	A, B, C	MOTOR_PLUG_F_3 .5	Socket	ECHWOLDUI	LICTICALITY DI	3	THE WALL	0.30	3330	24904310	J	402.00	0.03	
DF40C-30-DS	CONN RCPT 30POS 0.4MM SMD GOLD	ALIX	DF-40C-30DS	DF40C-30-DS	Hirose Electric Co Ltd	DF40C(2.0)-30DS- 0.4V(51)	1	Digi-Key	USD	5000	H11771TR-ND	4000	2693.36741	0.53867	
PartNumber	CAP, CERM, 1000pF, 16V, +/- 10%, X7R, 0603	C1_A, C1_B, C1_C	0603-CAP	GRM188R71C102K A01D			3	Digi-Key	Loading		GRM188R71C102K A01D-ND	0			1000pF
0u1	CAP CER 0.1UF 16V Y5V 0402	C2, C7, C13, C48	0402-CAP	CAP0402	Murata Electronics North America	GRM155R62A104K E14D	4	Digi-Key	USD	20000	490-10458-2-ND	640000	86.59654	0.00433	0u1
100u		C3	1206-CAP	CAPACITOR-1206	TDK Corporation	C3216XSR1A107M 160AC	1	Digi-Key	USD	5000	445-6007-2-ND	90000	2677.24995	0.53545	
PartNumber	CAP, CERM, 0.1 µF, 16 V, +/- 5%, X7R, 0603 CAP, CERM, 22 uF.	C4	0603-CAP	0603YC104JAT2A	AVX Corporation	0603YC104JAT2A	1	Digi-Key	USD	5000	478-3726-1-ND	131463	328.95544	0.06579	0.1uF
PartNumber	10 V, +/- 20%, X7S, 1206	C5	1206_180L	C3216X7S1A226M1 60AC	TDK Corporation	C3216X7S1A226M1 60AC	1	Digi-Key	USD	5000	445-8035-1-ND	1516	1658.62627	0.33173	22uF
PartNumber	CAP, CERM, 2.2 µF, 100 V, +/- 10%, X7R, 1210	C6	1210L	HMK325B7225KN-T	Taiyo Yuden	HMK325B7225KN-T	1	Digi-Key	USD	5000	587-1778-1-ND	718061	939.7874	0.18796	2.2uF
PartNumber	CAP, CERM, 1 µF, 6.3 V, +/- 10%, X7R, 0603	C8, C11, C47	0603-CAP	GRM188R70J105K A01D	Murata Electronics North America	GRM188R70J105K A01D	3	Digi-Key	USD	15000	490-3898-1-ND	834	1887.65343	0.12584	1uF
PartNumber	CAP, CERM, 0.047 µF, 100 V, +/- 10%, X7S, 0603	Ca	0603-CAP	C1608X7S2A473K0 80AB	TDK Corporation	C1608X7S2A473K0 80AB		Digi-Key	USD	5000	445-6032-1-ND	11265	222.50059		0.047uF
1	CAP CER 1UF 16V YSV 0603	C10	0805-CAP	CAP0603	Murata Electronics North America	GRM21BC72A105K		Digi-Key	USD		490-14464-2-ND		628.46168	0.12569	1
PartNumber	CAP, CERM, 4.7 µF, 80 V, +/- 10%, X7R, 1210	C12	1210 270L	GRM32ER71K475K E14L	Murata Electronics North America	GRM32ER71K475K E14L		Digi-Key	USD	5000	490-9972-1-ND	94958	2280.243	0.45605	4.7uF
CAP CER 10000PF 50V X7R 0402	CAP CER 10000PF 50V X7R 0402	C12 C14	CAPC1005L	E14L Cap	TDK Corporation	CGA283X7R1H103 K050BB	1	Digi-Key	USD	5000	445-6893-1-ND	94958 547355	2280.243 87.35267	0.45605	10nF
2u2	CAP CER 2.2UF 16V 10% X6S 0603	C15, C17	0603-CAP	CAP0603	TDK Corporation	C1608X6S1C225K0 80AC	2	Digi-Key	USD	10000	445-7438-1-ND	28321	725.64402	0.07256	2u2
Cap	CAP CER 1UF 6.3V XSR 0402 CAP CER 0.1UF	C16_CAN1, C16_CAN2, C16_CAN3	CAPC1005L	Cap	Taiyo Yuden	JMK105BJ105KVHF CC0402ZRYSV7BB1	3	Digi-Key	USD	15000	587-3766-1-ND	125333	228.86798	0.01526	1uF
0u1	16V Y5V 0402	C18	0402-CAP	CAP0402	Yageo	04	1	Digi-Key	USD	5000	311-1047-1-ND	1620669	16.7542	0.00335	0u1
	CAP CER 0.1UF 6V 'SV 0201, CAP CER 0.1UF 6V SV 0201, CAP CER	C19, C26, C27, C28, C32, C33, C34, C35, C36, C37, C38, C45, A			Must Settonic	GBM033C81F1GAM									
0u1	16V Y5V 0402	C45_B, C45_C, C52	0201-cap	CAP0402		E14D	15	Digi-Key	USD	75000	490-10404-2-ND	0	719.31642	0.00959	
Сар	Capacitor	C20, C21, C22, C23, C24, C25, C29, C30, C31, C46	CAPCS7S0L	Cap	TDK	CGA9P3X7S2A156 M250KB	10	Newark	USD	50000	80X3236	0	173500	3.47	15uF
8p	CAP CER 8PF 50V NP0 0201	C39, C40	0201-cap	CAP0402	Murata Electronics North America	GRM0335C1H8R0 DA01J	2	Digi-Key	USD	10000	490-13331-1-ND	31411	28.73286	0.00287	
GRM21BR60G107 ME15L		C41, C42	C0805	Capacitor	Murata Electronics North America	GRM21BR60G107 ME15L	,	Digi-Key	USD	10000	490-10510-1-ND	20820	4499.04066	0.4499	100uF
22	CAP CER 2u2uF 6V YSV 0201	C43, C44	0201-cap	CAP0402	Murata Electronics North America	GRM033R60J225M E15D		Digi-Key	USD	10000	490-13224-1-ND	782260	563,91224	0.05639	
22uF	CAP CER 22UF 6.3V XSR 0402	C49	0201-cap	CAP0805	AVX Corporation	04026D226MAT2A	1	Digi-Key	USD	10000	478-9839-2-ND	0	2109.35809	0.21094	
4u7	CAP CER 4.7UF 6.3V XSR 0201	C50	0201-cap	CAP0603	Murata Electronics North America	GRM035R60J475M E15D	1	Digi-Key	USD	10000	490-13230-2-ND	110000	1003.8195	0.10038	
1u	CAP CER 1UF 6.3V XSR 0201	C51	0201-cap	CAP0603	Murata Electronics North America	GRM033R60J105M EA2D	1	Digi-Key	USD	15000	490-7229-2-ND	0	273.99688	0.01827	
JST_GH_V4	BM04B-GHS-TBT	CAN_CAN1, CAN_CAN2, CAN_CAN3	JST_GH_V4	JST_GH_V4	JST Sales America Inc.	BM04B-GHS- TBT(LF)(SN)(N)	3	Digi-Key	USD	15000	455-1580-2-ND	145000	2765.75671	0.18438	
PartNumber	Diode, Schottky, 100 V, 1 A, SOD- 123FI	D1	SOD-123FL	MRP1H100SFT3G	ON Semiconductor	MBR1H100SFT3G	1	Digi-Key	usn	5000	MBR1H100SFT3GO SCT-ND	1978	2079.78951	0.41596	100V
Schottky barrier diode	DIODE SCHOTTKY 30V 0.03A SOD323	D2	SOD323	DIODE- SCHOTTKY_SOD32	ON Semiconductor	RB751V40T1G		Digi-Key	USD	5000	RB751V40T1GOSC T-ND	142320	325.1748	0.06503	307
Filter	EMIFIL (Capacitor type) Single Circuit Type for Signal Lines	Filter	NFM18CC	NFM18CC222R1C3	Murata Electronics North America	NFM18PC225B1A3 D	1	Digi-Key	USD		490-6972-1-ND	5396	836.67543	0.16734	2.2uF
	Inductor, Shielded Drum Core,														
PartNumber	Ferrite, 15 µH, 1.1 A, 0.122 ohm, SMD Description FIXED	u	SD53	SD53-150-R	Eaton	SD53-150-R		Digi-Key	USD	5000	513-1458-1-ND	13071	3719.3534	0.74387	15uH
732-3880-2-ND	IND 18UH 7.5A 22 MOHM SMD Connector,	L2	WE_IND	SD53-150-R	Wurth Electronics Inc.	7443551181	1	Digi-Key	USD	5000	732-3880-2-ND	400	14707.80215	2.94156	18uH
JST_SUR_6	Header, 6Pos, .8mm IDC, R/A, SMD, Tin	P106	JST_SUR_H6	JST_SUR_6	JST Sales America Inc.	SM06B-SURS- TF(LF)(SN)	1	Digi-Key	USD	5000	SM06B-SURS- TF(LF)(SN)-ND	0	2359.75582	0.47195	
	N-Channel	Q1_A, Q1_B, Q1_C, Q2_A, Q2_B, Q2_C, Q5_A, Q5_B, Q5_C,													
MOSFET-N	MOSFET	Q6_A, Q6_B, Q6_C R1_CAN1, R1_CAN2, R1_CAN3,	Q5B	MOSFET-N	Texas Instruments	CSD19502Q58	12	Digi-Key	USD	60000	296-37194-1-ND	1013	82349.01522	1.37248	
OHM 5% 1/16W	RES SMD 120 OHM 5% 1/16W 0402 RES SMD 10K	R15_CAN1, R15_CAN2, R15_CAN3	R0402	Resistor	Yageo	RC0402JR-07120RL	6	Digi-Key	USD	30000	311-120JRTR-ND	520000	39.8758	0.00133	120R
RES SMD 10K OHM 5% 1/16W 0402	OHM 5% 1/16W 0402	R2, R8	0402-RES	Resistor	Yageo	RC0402JR-0710KL	2	Digi-Key	USD	10000	311-10KJRTR-ND	5580000	15.12256	0.00151	10K
Current sense resistor	2W, 0.001R 502S current sense resistor	R3_A, R3_B, R3_C	4RESC5125X09N	WSLP20101L000FE K	Stackpole Electronics Inc.	CSNL2010FT1L00	1	Digi-Key	USD	15000	CSNL2010FT1L00CT	5058	3470.50772	0.23137	
2K	RES 2K OHM 1/16W 1% 0402 SMD	R4, R5, R11, R12, R13	0402-RES	RESISTOR0402-RES				Digi-Key	Loading		311-2.0KLRCT-ND				
PartNumber	RES, 28.0 k, 1%, 0.1 W, 0603	R6	0603L	CRCW060328K0FK EA	Vishay Dale	CRCW060328K0FK EA	1	Digi-Key	USD USD	5000	541-28.0KHCT-ND	37531	30.20532	0.00604	28.0k
PartNumber	RES, 8.45 k, 1%, 0.1 W, 0603 RES SMD 18K OHM 1% 1/8W	R7	0603L	CRCW06038K45FK EA	Vishay Dale	EA	1	Digi-Key	USD	5000	541-8.45KHCT-ND	1359	30.20532	0.00604	8.45k
RES	OHM 1% 1/8W 0805 RES SMD 1K OHM 1% 1/8W 0805	R9_A, R9_B, R9_C, R16 R10_A, R10_B, R10_C, R18	R0805	R00155	Yageo	RC0805FR-0718KL	4	Digi-Key	USD	20000	311-18.0KCRCT-ND	283911	75.13524	0.00376	18k
RES	RES 10K OHM 1/16W 1% 0402	R10_C, R18	R0805	R00095	Yageo	RC0805FR-071KL	4	Digi-Key	USD		311-1.00KCRCT-ND	7283577	75.13524	0.00376	1k
10K	SMD RES 1K OHM	R19	0402-RES	RESISTOR0402-RES	Yageo Samsung Electro- Mechanics	RC0402FR-0710KL		Digi-Key	USD		311-10.0KLRCT-ND	16739900	10.58579	0.00212	
1K VL53L0X	1/16W 1% 0402	R20 TOF	0402-RES VL53L0X	RESISTOR0402-RES	America, Inc.	RC1005F102CS VL53L0CXV0DH/1	1	Digi-Key Digi-Key	USD	5000 5000	1276-3430-1-ND 497-16538-2-ND	786842 5000	10.26742 13985.85918	0.00205	1K
VL53L0X DRV8323R		U1	POFP-G48	DRV8323R	Texas Instruments STMICROELECTRO	DRV8323RHRGZR	1	Digi-Key Digi-Key	USD	5000	497-16538-2-ND DRV8323RHRGZR- ND	5000	13985.85918	2.79717	
STM32F769AI	STM32F7	U2 U3_CAN1,	WLCSP180	STM32F769AI	STMICROELECTRO NICS	STM32F769AIY6TR	- 1	Newark	USD	5000	8418745	0	48000	9.6	
CAN		U3_CAN1, U3_CAN2, U3_CAN3	SON65P300X100_H S-9N	CAN	NXP USA Inc. Monolithic Power	TJA1051TK/3,118	3	Digi-Key	USD		568-8686-2-ND	54000	5836.31256	0.38909	
MA700	MA700	U4	QFN16	MA700	Systems Inc.	MA700GQ-Z	- 1	Digi-Key	USD	5000	MA700GQ-Z-ND Component Distributors Inc	0	14477.54131	2.89551	
ICM20649 NCV8154	IC REG LDO 1.8v and 2.8v	US	ICM20649 NCV8154	ICM20649 NCV8154	Supplier disabled ON Semiconductor	Supplier disabled NCV8154MTW1802 80TCG		Octopart	Supplier disabled	5000	ICM-20549 NCV8154MTW1802 80TCGOSTR-ND LTC4316IDD#PBF-		1568.48786		
		U7	LTC4316	LTC4316	Semiconductor Linear Technology	BOTCG LTC4316IDD#PBF	1	Digi-Key Digi-Key	USD	5000	80TCGOSTR-ND LTC4316IDD#PBF- ND	991	1568.48786 11035.88584	0.3137	
LTC4316 Crystal Oscillator in SMD 1.6 x 1.2	CRYSTAL 24MHZ		OSCILLATOR-	OSCILLATOR-		8Q-24.000MEEV-T		Digi-Key	USD	5000	887-1846-2-ND		4971.54101	0.99431	