

The Great Gambit PCB								
REV 10								
Line	Quantity	Reference	Value	MANU PART #	MANU	Digikey Part Number	Mouser Part Number	Description
1	1	C18	8200pF	C1210C822K2RACAU	KEMET	399-C1210C822K2RACAUOCT-ND	80-C1210C822K2RAUTO	SMD Auto X7R, Ceramic, 8200 pF, 10%, 200 VDC, 500 VDC, 125C, -55C, X7R, SMD, MLCC, Temperature Stable, Automotive Grade, 2.5 % , 100 GOhms, 40 mg, 1210, 3.2mm, 2.5mm, 0.78mm, 0.5mm, 4000, 78 Weeks, 80
2	3	C9, C10, C12	0.01uF	GRM033R61A103KA01D	Murata Electronics	490-3166-1-ND	81-GRM033R61A103KA01	Multilayer Ceramic Capacitors MLCC - SMD/SMT 0201 0.01uF 10volts X5R 10%
3	3	C11, C25, C26	0.1 uF	CL10B104KB8NNNC	Samsung Electro-Mechanics	1276-1000-6-ND		Unpolarized capacitor
4	1	C8	0.47uF	C1812X474K2RACAU	KEMET	399-C1812X474K2RACAUOCT-ND	80-C1812X474K2RAUTO	SMD Auto X7R Flex, Ceramic, 0.47 uF, 10%, 200 VDC, 500 VDC, 125C, -55C, X7R, SMD, MLCC, FT-CAP, Automotive Grade, 2.5 % , 2.1277 GOhms, 185 mg, 1812, 4.5mm, 3.2mm, 1.7mm, 0.7mm, 1000, 78 Weeks, 80
6	2	C29, C30	470 uF	EEE-FP1E471AP	Panasonic Electronic Components	PCE4440DKR-ND		Polarized capacitor, US symbol
7	1	L1	680 uH	SRR1210-681M	Bourns Inc.	SRR1210-681MCT-ND	652-SRR1210-681M	
8	1	R9, R10	400m	WSL2010R4000FEA	Vishay Dale	WSLE-.40CT-ND	71-WSL2010R4000FEA	RESISTOR, 2010 0.40 Ohm +/-1% 0.5 W
9	1	R42	47	CHP2512AFX-47R0ELF	Bourns Inc.	118-CHP2512AFX-47R0ELFCT-ND	652-CHP2512AFX-47R0L	Resistor
10	1	R32	562	CR0402-FX-5620GLF	Bourns Inc.	118-CR0402-FX-5620GLFCT-ND	652-CR0402FX-5620GLF	Thick Film Resistors - SMD 562 OHM 1%
12	1	R11, R13, R14, R33	10k	RMCF1206FT10K0	Stackpole Electronics Inc	RMCF1206FT10K0CT-ND		Thick Film Resistors - SMD 0.35W 10Kohm .5% AEC-Q200
13	1	R12	30k	ERJ-PB6B3002V	Panasonic Electronic Components	P20760CT-ND	667-ERJ-PB6B3002V	Thick Film Resistors - SMD 0805 Anti-Surge Res. 0.1%, 30Kohm
14	1	R34	100k	RCV2512100KFKEGAT	Vishay Dale	541-RCV2512100KFKEGATCT-ND	71-RCV2512100KFKEGAT	100 kOhms +/-1% 1W Chip Resistor 2512 (6432 Metric) Automotive AEC-Q200, High Voltage Thick Film
15	1	R8	1M	TNPV08051M00BEEA	Vishay Dale	541-TNPV08051M00BEEACT-ND	71-TNPV08051M00BEEA	Thin Film Resistors - SMD 1Mohms .1% 25ppm High Voltage RES, 1M, 0.2W, 0805
16	1	U10		LM2576SX-3.3/NOPB	Texas Instruments	LM2576SX-3.3/NOPBCT-ND	926-LM2576SX33NOPB	
17	3	U1, U2, U9		UCLAMP3301H.TCT	Semtech Corporation	UCLAMP3301HDKR-ND		
18	1	IC2		DRV8824QPWPRQ1	Texas Instruments	296-45030-1-ND	595-DRV8824QPWPRQ1	Automotive 1.6A Bipolar Stepper Motor Driver with On-Chip 1/32
19	2	D3, D4		CDBA540-HF	Comchip Technology	641-1707-1-ND	750-CDBA540-HF	Microstepping Indexer (Step/Dir Ctrl)
20	1	F1		3588	Keystone Electronics	36-3588-ND	534-3588	Schottky Diodes & Rectifiers 40V, 5A
21	1	IC4		LM2576HVS-5.0/NOPB	Texas Instruments		926-LM2576HVS5.0NOPB	Fuse Holder SMT MINI FUSE HOLDER .630 X .290
22	1	L2	100 uH	PA4344.104NLT	Pulse Electronics	553-3011-1-ND		Switching Voltage Regulators 3A STEP-DOWN VLTG REG
23		C1, C2, C3, C4, C5, C6, C13, C14, C15, C16, C17, C19, C20, C21, C22, C23, C24, C27, C28, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40	DNI					
24		D2	DNI					
25		HS1, HS2	DNI					
26		IC5, IC6, IC7	DNI					
27		J1-J3, J4-J2, J5-J7, J8-J6	DNI					
28		IC1, IC3	DNI					
29		J2, J3, J4, J5, J6, J7, J8, J10, J11, J12, J13, J14, J15, J16, J17, J18, J19, J20, J21, J22,	DNI					
30		LED1	DNI					
31		R2, R3, R36, R37	DNI					
32		R50, R51, R52, R53, R54	DNI					
33		R17, R20, R23, R26, R29	DNI					
34		R44, R47, R71, R74, R77, R80	DNI					
35		R1, R4, R6, R7, R18, R21, R24, R27, R30	DNI					

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36		R38, R40, R41, R45, R48, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R72, R75, R78, R81	DNI					
37		R19, R22, R25, R28, R31	DNI					
38		R46, R49, R73, R76, R79, R82	DNI					
39		S1, S2, S3	DNI					
40		U7	DNI					
41		U3 U4 U5 U6 U8 U11 U12 U13 U14 U15 U16 U17 U18	DNI					