











Designator	Manufacturer 1	Manufacturer Part Number 1	Description	Comment	Qu ant ity	LibRef
			CAP CER 0402 22pF 50V			04025A220JAT2A
C1, C12, C13, C57, C58			5% C0G CAP CER 0805 10uF 10V	22pF	5	04025A220JA12A
C2, C45 C3, C17, C18, C23, C24, C25, C27, C28,			10% X5R	10uF	2	C0805C106K8PACTU
C3, C17, C18, C23, C24, C23, C27, C28, C29, C32, C33, C34, C37, C38, C39, C40, C42, C43, C44, C60, C62, C71, C72, C73, C74			CAP CER 0603 100nF 50V 10% X7R	100nF	25	C0603C104K5RACTU
C4, C6, C7, C8, C9, C10, C11, C14, C15,			CAP CER 0402 100nF 16V	100111	23	CUBUSCIOAKSKACIU
C26, C52, C56, C59, C67, C68, C69, C70			10% X7R	100nF		GRM155R71C104KA88D
C5			CAP ALU 470uF 50V 20% CAP CER 0402 1uF 6.3V	470uF	1	UPW1H471MHD1TO
C16, C19, C20, C21, C22, C47, C48			10% X5R	1uF	7	GRM155R60J105KE19D
C30			CAP CER 1206 4.7uF 50V 10% X5R	4.7uF	1	C1206C475K5PACTU
			CAP CER 0603 220nF 10V			
C31, C36, C41, C46			10% X7R CAP CER 0805 1uF 50V	220nF	4	CC0603KRX7R7BB224
C35			10% X7R	1uF	1	GRM21BR71H105KA12L
C49, C63			CAP CER 0402 4.7nF 25V 10% X7R	4.7nF	2	CC0402KRX7R8BB472
C50, C51, C55, C61, C64, C65, C66, C75, C76, C77, C78, C79, C80, C81, C82, C83			CAP CER 0603 1nF 50v 10% X7R	1nF	16	C0603C102K5RACTU
			CAP ALU 100uF 50V 20%			
C53, C54			105C	100uF	8	UVZ1H101MPD1TD
D1, D3, D4, D5, D11, D13, D14, D15 D2, D8			DIODE SOD523 DIODE TVS 30V SMA	1N4148WT SMAJ30A	2	1N4148WT SMAJ30A
D6, D9, D10			DIODE Schottky 3A SMA	SK310A-TP	3	SK310A
D7			DIODE DO-214AB	S3A-13-F	1	S3A-13-F
D12			Z-Diode	SZMM3Z4V 7T1G	,	ZENER-DIODE
				RSB39VTE-		
D16			DIODE TVS	17		RSB39VTE-17
F1, F2, F3			FUSE PTH ATO	3522-2 PTS181233V	3	3522-2
F5			FUSE 1812 PTC 750mA 6V	075	1	PTS181233V075
FB1, FB2			FERRITE BEAD 1806 60ohm	BLM41PG60 0SN1L	2	BLM41PG600SN1L
FID1, FID2, FID3			Fiducial	FIDUCIAL	_	FIDUCIAL
				XAL5050-		
11			IND 15uH 3.9A 20% IND 0805 10uH 240mA	153MED CBC2012T1	1	XAL5050-153MED
L2			20%	M00	1	CBC2012T100M
LED1, LED4, LED10			LED 0805 Yellow	5988140107 F	3	5988140107F
LED2, LED3, LED6, LED8			LED 0805 Red	5988110107 F	4	5988110107F
LED7			LED 0805 Green	5988170107 F	1	5988170107F
P1, P2			HDR 20pos Vert Dual Row	5-104068-1	2	5-104068-1
P3			Mosfet N-channel 60V	5x2 IDCw PSMN7R0-	1	5X2 IDCw
Q1, Q5			356A 117W 9.3mOhms	60YS,115	2	PSMN7R0-60YS,115
Q8, Q9			Mosfet N-Channel 30V 3.4A 63mOhm	IRLML6346T RPBF	2	IRLML6346TRPBF
R1, R2			RES 0402 22r 62.5mW 1%	22r	2	RC0402FR-0722RL
R3			RES 0402 22r 63mW 1%	200K	1	CRCW0402200KFKED
R4, R7, R8, R10, R14, R15, R19, R20			RES 1206 0.1r 0.5w 1%	0.1r	8	CRM1206-FX-R100ELF
R5, R6, R31, R32, R36, R37			RES 0603 4.7K 100mW 1%	4.7K	6	
R9, R42, R56, R71 R11, R23, R24, R46, R47, R73			RES 0603 10r 100mW 1% RES 0603 10K 100mW 1%	10r 10K	4	CRCW060310R0FKEA ERJ-3EKF1002V
N11, N23, N24, N40, N47, N73			RES 0.06 OHM 1W 1%	10K	- 0	ERO-SERF1002V
R13			2512 SMD	0.6r	1	RL2512FK-070R06L
R16, R21, R43, R57, R59, R60, R61, R62			RES 100K OHM 1/10W 1% 0603 SMD	100K	8	RC0603FR-07100KL
R33, R34, R35			RES 0603 1K 100mW 1%	1K	3	ERJ-3EKF1001V
R40, R58, R69, R70			RES 0603 1.8K 100mW 5%	1.8K	4	RC0603JR-071K8L
R72			RES 0402 1M 100mW 5% RES ARRAY 4 RES 10K 1206	1M	1	ERJ2GEJ105X
RN1, RN2, RN3			62.5mW 5%	10K	3	CAY16-103J4LF
RN5			RES ARRAY 4 RES 1K 1206 62.5mW 5%	1K		CAY16-102J4LF
	1			CG0603ML		
RV1, RV2	-		VAR 0603 5V SWTCH Momentary	C-05E	2	CG0603MLC-05E
S1	TE Connectivity	1571610-2	Washable	1571610-2	1	1571610-2
U1	Atmel	ATMEGA32U2-MUR	Atmega32u2	Atmega32u 2	1	ATMEGA32U2-MU2
U2	Atmel	ATMEGA2560-16AUR	Atmega2560	Atmega256 0	1	ATMEGA2560AU
U3			REG BUCK	LM25011MY /NOPB	1	LM25011
	Allegro		Stepper Driver - Fully	,.,.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ŕ	
U5, U6, U7, U8	MicroSystems, LLC	A4982SETTR-T	Integrated, Control and Power Stage	A4982	4	A4982QFN32
U10			4ch iCoupler	ADUM7441	1	ADUM7441
			Connector 2pos 2.54mm	C-GRID-02-		
X1, X9, X12, X27, X28	-		locking USB connector B PTH	70543 USB-B	5	C-GRID-02-70543 USB-B
X2			OSD CONNECTOR B PIH		1	U30-D
X3, X10			PHOENIX	0395311004	2	
X4, X6, X8, X14, X15			PHOENIX CONNECTOR Connector 2pos 2.54mm	MPT4 C-GRID-03-	5	MPT4
X5, X7, X11, X21, X22, X23			locking	70543	6	C-GRID-03-70543
X17, X18		-	PIN HEADER	PINHD-2X3	2	PINHD-2X3
	_		Connector 2x1 2.54mm		Ι.	M02PTH
X35			PTH	M02PTH	1	
X35 Y1, Y2			Crystal 16mHz 10ppm 10pF		_	7M-16.000MEEQ-T