

M1
MOUNTING_HOLE

M2
MOUNTING_HOLE

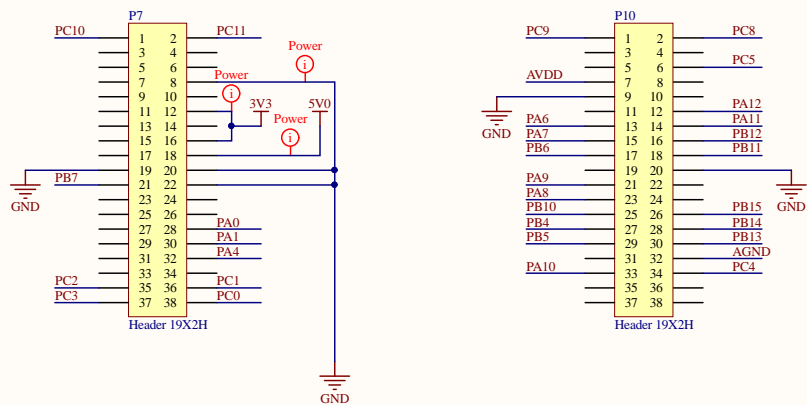
M3
MOUNTING_HOLE

M4
MOUNTING_HOLE

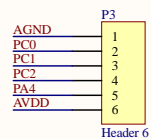
M5
Nucleo-64

Title		
Mechanical Parts		
Size	Number	Revision
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File:	C:\Users\...\Mechanical.SchDoc	Drawn By: Mike Jarabek

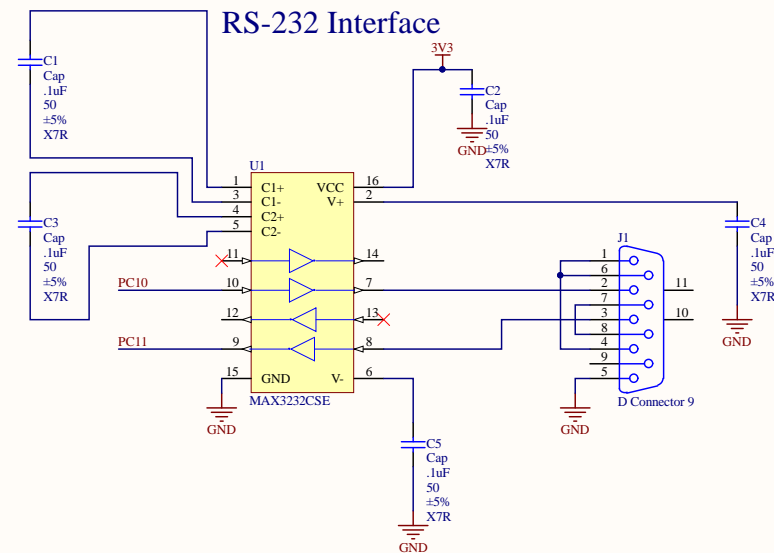
Nucleo-64 Morpho Connectors



Analog I/O

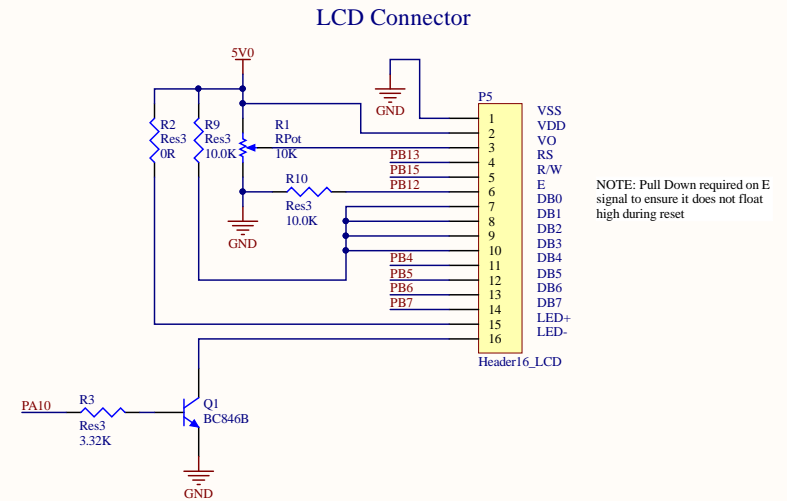
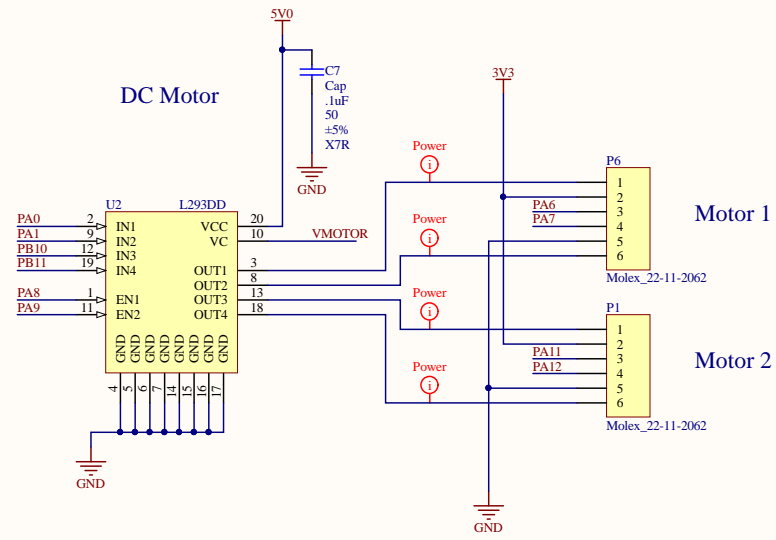
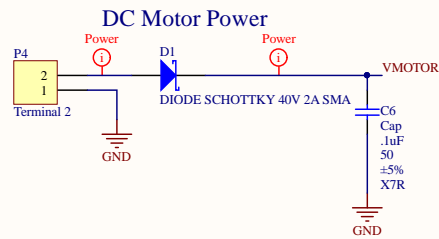


RS-232 Interface

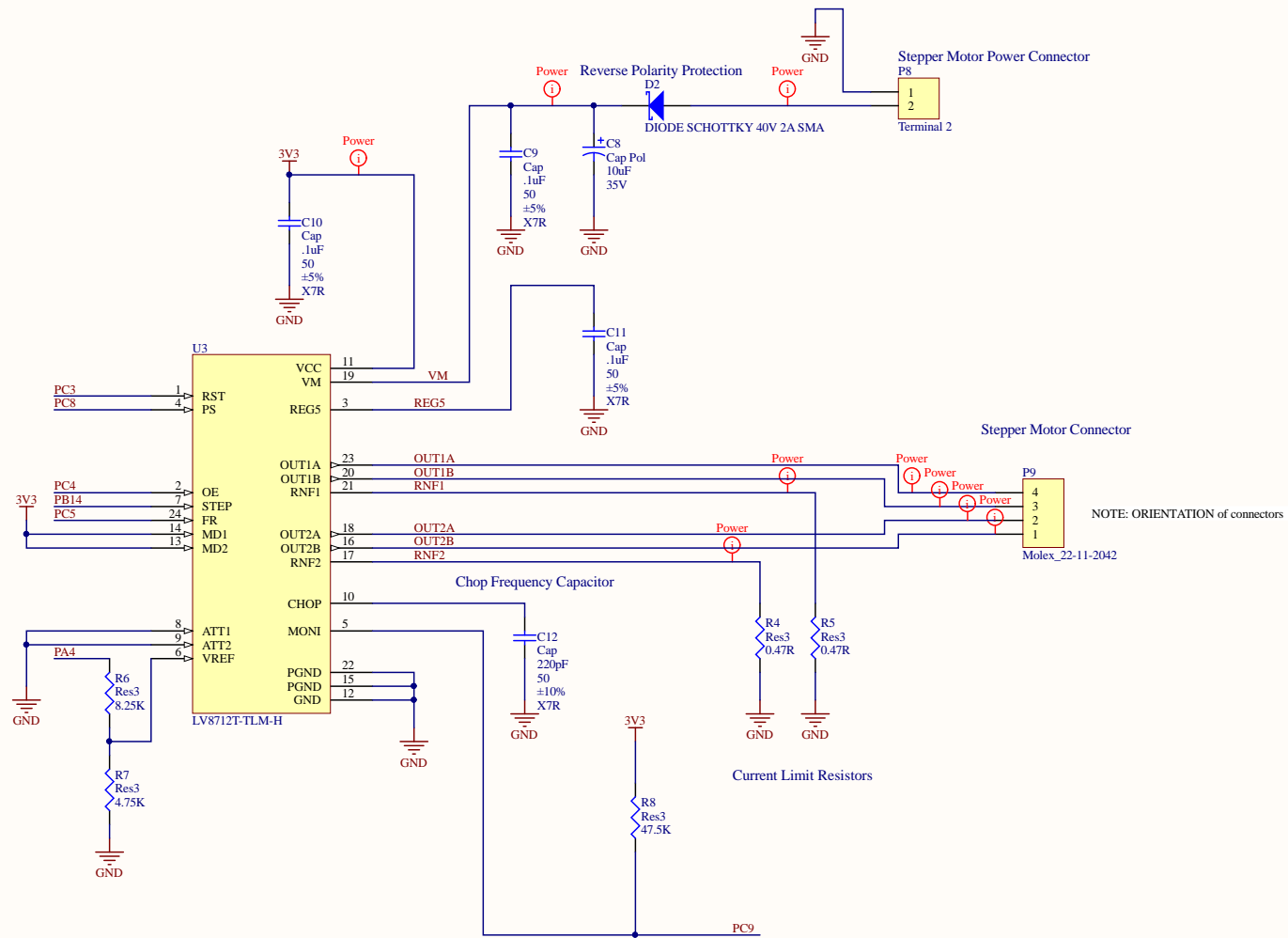


STM32F3 Discovery Expander

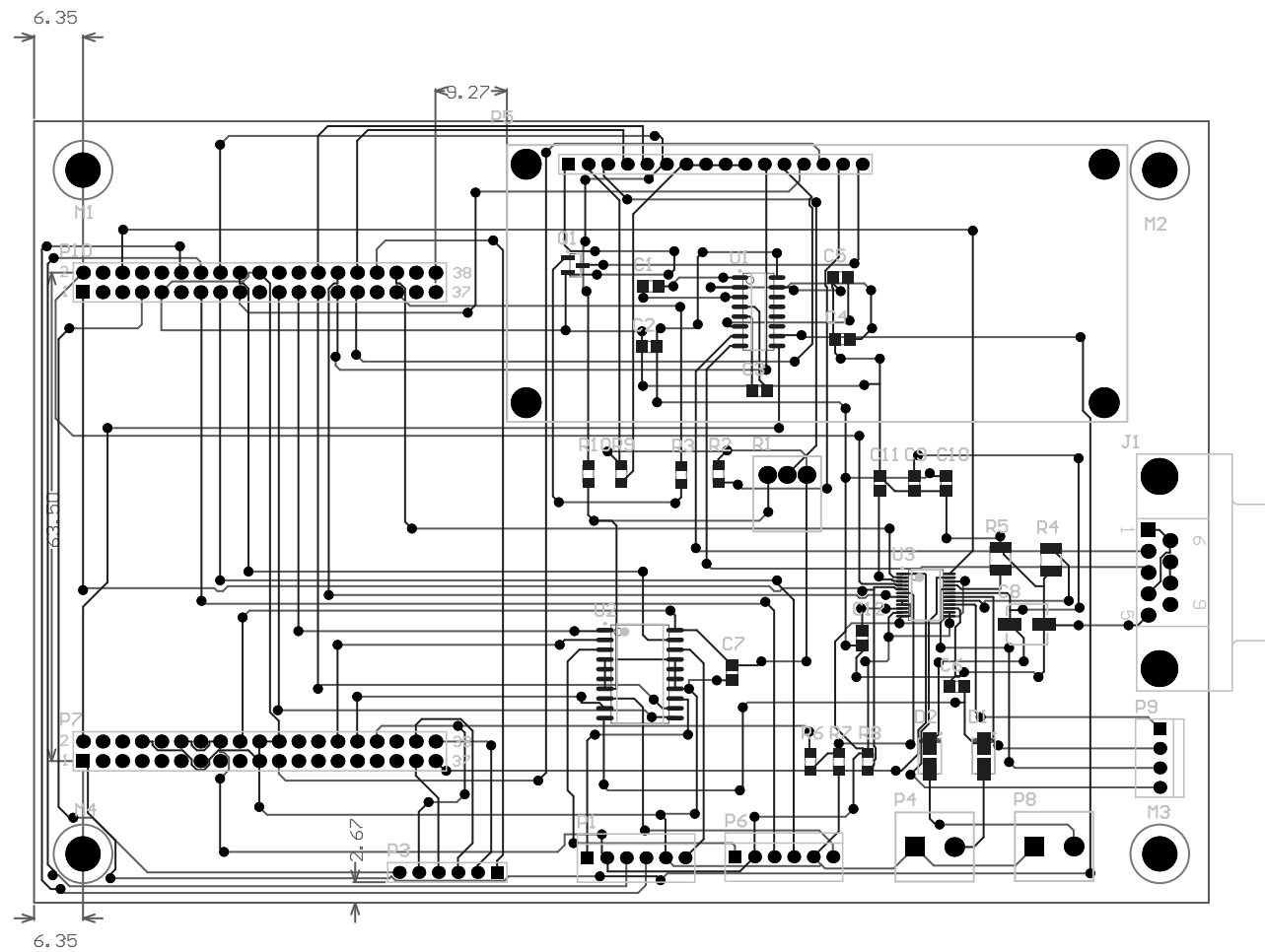
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Size	Number	Revision	A
Date:	2019-02-14	Sheet	of
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Title				STM32F3 Discovery Expander	
Size		Number		Revision	
B				A	
Date:		2019-02-14		Sheet	of
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Title Stepper Motor Driver			
Size B	Number *	Revision B	
Date:	2019-02-14	Sheet	of
File:	C:\Users\...\Sheet3.SchDoc	Drawn By:	Santhosh Nagendran



Comment	Description	Designator	Footprint	LibRef	Quantity
Cap	CAP CER .1uF 50v X7R 0805, CAP CER 220pF 50v X7R 0805	C1, C2, C3, C4, C5, C6, C7, C9, C10, C11, C12	CAPC2012X09M	CAP-X7R-.1uF-50V-±5%, CAP-X7R-220pF-50V-±10%	11
Cap Pol	CAP 85C 10uF ±20% 35V WX Series Aluminum Electrolytic	C8	CAPACITOR_5MM	Cap Polar-10uF-35V	1
DIODE SCHOTTKY 40V 2A SMA	Schottky Rectifier	D1, D2	DIOM4326X23M	DIODE SCHOTTKY 40V 2A SMA	2
D Connector 9	Receptacle Assembly, 9 Position, Right Angle	J1	DSUB1.385-2H9	D Connector 9	1
MOUNTING_HOLE	Mounting Hole	M1, M2, M3, M4	MOUNTING_HOLE	MOUNTING_HOLE	4
Nucleo-64	Nucleo-64 Board Model	M5	NUCLEO_64	Nucleo-64	1
Molex_22-11-2062	CONN HEADER 6POS .100 VERT GOLD	P1, P6	MOLEX_22-11-2062	Molex_22-11-2062	2
Header 6	Header, 6-Pin Male	P3	HDR1X6	Header 6	1
Terminal 2	Terminal, 2-Pin	P4, P8	TYCO_282841_2	Terminal 2	2
Header16_LCD	Header, 16-Pin Female	P5	HDR1X16_LCD	Header16_LCD	1
Header 19X2H	38 Position Header Connector 0.100in (2.54mm) Through Hole Gold	P7, P10	PPPC192LFBN-RC	Header 19X2H	2
Molex_22-11-2042	CONN HEADER 4POS .100 VERT GOLD	P9	MOLEX-22-11-2042	Molex_22-11-2042	1
BC846B	TRANS NPN 65V 0.1A SOT23	Q1	SOT95P230X110-3M	BC846B	1
RPot	POT 10K OHM THUMBWHEEL CERM ST	R1	BOURNS_3386F	RPot	1
Res3	RES SMD 0 OHM 5% 1/8W 0805, RES SMD 3.32K OHM 1% 1/8W 0805, RES SMD 8.25K OHM 1% 1/8W 0805, RES SMD 4.75K OHM 1% 1/8W 0805, RES SMD 47.5K OHM 1% 1/8W 0805, RES SMD 10.0K OHM 1% 1/8W 0805	R2, R3, R6, R7, R8, R9, R10	RESC2112X05M	Resistor_OR_Jumper, Resistor_3.32K, Resistor_8.25K, Resistor_4.75K, Resistor_47.5K, Resistor_10.0K	7
Res3	RES SMD 0.47OHM 5% 1W 1210	R4, R5	RESC3125X07M	Resistor_0.47R_1W	2
MAX3232CSE	3.0V TO 5.5V, Low-Power, up to 1Mbps, True RS-232 Transceiver Using Four 0.1µF External Capacitor	U1	NSO16_N	MAX3232CSE	1
L293DD	IC MOTOR DRIVER PAR 20-SOIC	U2	SO20_N	L293DD	1
LV8712T-TLM-H	IC MOTOR DRIVER PAR 24TSSOP	U3	ONSEMITSSOP50P640X 120-24M	LV8712T-TLM-H	1