

A

B

C

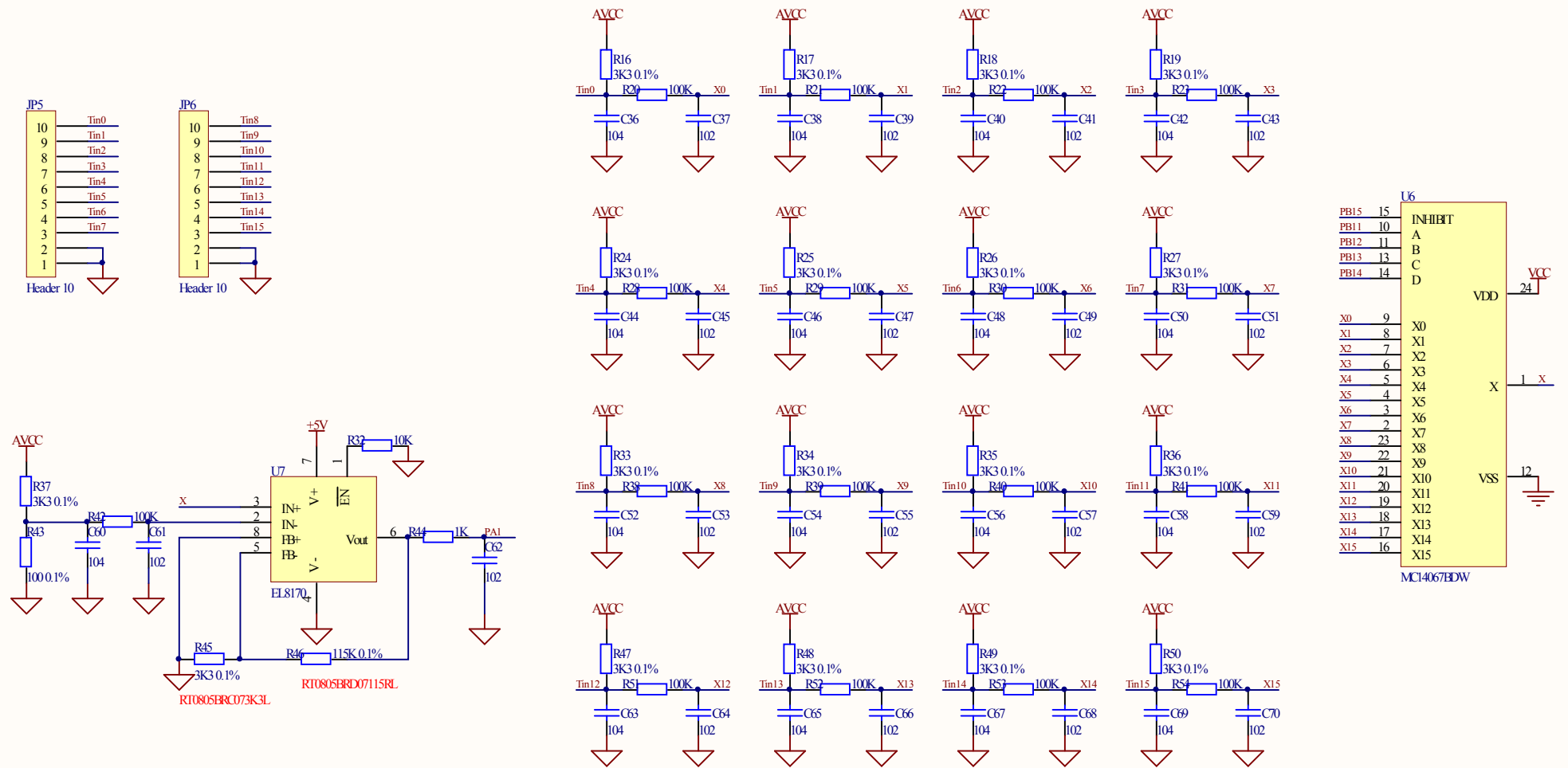
D

A

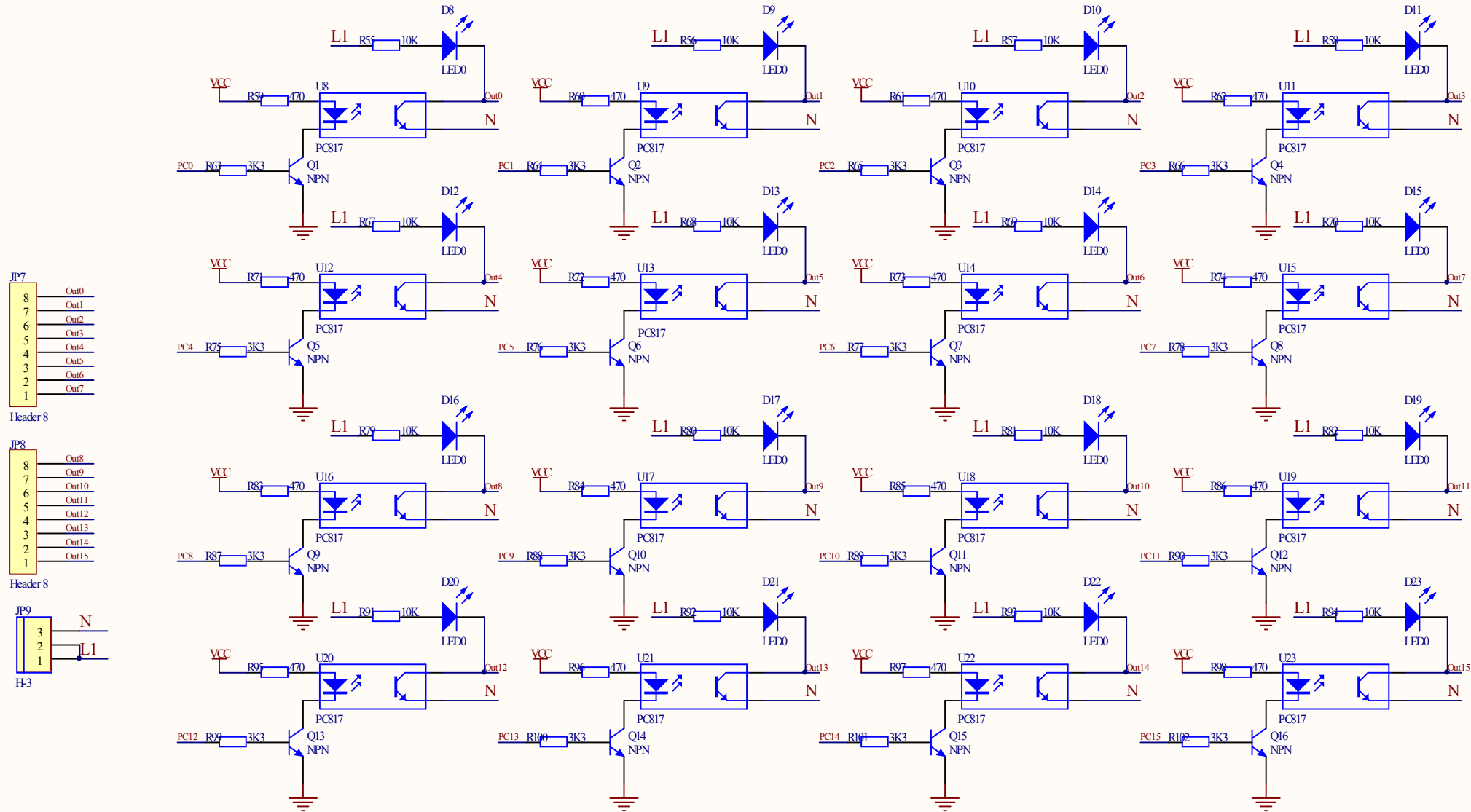
B

C

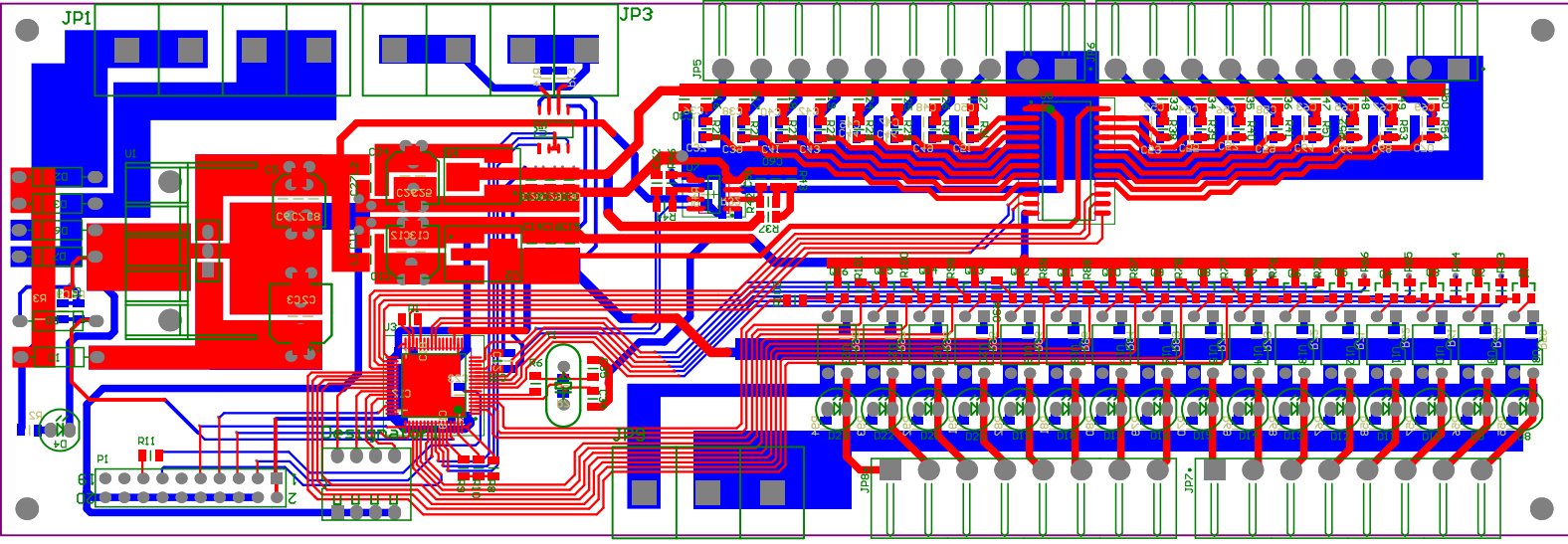
D



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Size	Number	Revision
A4		
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Title		
Size	Number	Revision
A4		
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Comment	Description	Designator	Footprint	LibRef	Quantity
106	Capacitor, Capacitor (Semiconductor SIM Model), Polarized Capacitor (Axial)	C1, C14, C15, C22, C28, C29	0805	Cap, Cap Pol2, Cap Semi	6
104	Capacitor, Capacitor (Semiconductor SIM Model), Polarized Capacitor (Axial)	C2, C3, C6, C7, C8, C9, C11, C12, C13, C16, C17, C18, C19, C20, C21, C23, C25, C26, C27, C30, C31, C32, C33, C36, C38, C40, C42, C44, C46, C48, C50, C52, C54, C56, C58, C60, C63, C65, C67, C69	0805	Cap, Cap Pol2, Cap Semi	40
50V/100uF	Polarized Capacitor (Radial)	C4	50V/100uF SOC	Cap Pol1	1
16V/100uF	Polarized Capacitor (Radial)	C5	100/16V SOC	Cap Pol1	1
100uF/16V	Polarized Capacitor (Radial)	C10, C24	100/16V SOC	Cap Pol1	2
20P	Capacitor (Semiconductor SIM Model)	C34, C35	0805	Cap Semi	2
102	Capacitor	C37, C39, C41, C43, C45, C47, C49, C51, C53, C55, C57, C59, C61, C62, C64, C66, C68, C70	0805	CAP	18
4007	Default Diode	D1, D2, D3, D6, D7	DIODE0.4	Diode	5
LED0	Typical INFRARED GaAs LED	D4, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23	LED0.1-0.22	LED0	17
1N5333B	Zener Diode	D5	DIODE0.4	D Zener	1
H-4	Header, 4-Pin	JP1, JP3	P4	H-4	2
Header 10	Header, 10-Pin	JP5, JP6	HEAD10B-H - X	Header 10	2
Header 8	Header, 8-Pin	JP7, JP8	HEAD8B-H - X	Header 8	2
H-3	Header, 3-Pin	JP9	P3	H-3	1
Inductor	Inductor	L1, L2	0805	Inductor	2
JTAG	Header, 10-Pin, Dual row	P1	HDR2X10	Header 10X2	1
NPN	NPN Bipolar Transistor	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16	S9013SMD	NPN	16
10K	Resistor	R1, R2, R9, R10, R32, R55, R56, R57, R58, R67, R68, R69, R70, R79, R80, R81, R82, R91, R92, R93, R94	0805	Res, Res3	21
100K	Resistor	R3, R20, R21, R22, R23, R28, R29, R30, R31, R38, R39, R40, R41, R42, R51, R52, R53, R54	0805	Res	18
20K	Resistor	R5	0805	Res	1
390R	Resistor	R6	0805	Res3	1
1M	Resistor	R7	0805	Res3	1
NC	Resistor	R8	0805	Res3	1
0	Resistor	R11	0805	Res3	1
62	Resistor	R13, R14	0805	Res	2
3K3 0.1%	Resistor	R16, R17, R18, R19, R24, R25, R26, R27, R33, R34, R35, R36, R37, R45, R47, R48, R49, R50	0805	Res	18
100 0.1%	Resistor	R43	0805	Res	1
1K	Resistor	R44	0805	Res	1
115K 0.1%	Resistor	R46	0805	Res	1
470	Resistor	R59, R60, R61, R62, R71, R72, R73, R74, R83, R84, R85, R86, R95, R96, R97, R98	0805	Res	16
3K3	Resistor	R63, R64, R65, R66, R75, R76, R77, R78, R87, R88, R89, R90, R99, R100, R101, R102	0805	Res	16
SW-DIP4	DIP Switch,4-bit	S1	SW-DIP-4	SW-DIP4	1
7805		U1	SIP-W3 /SRQ25	78*05	1
LM1117	LM1117	U2, U4	DSO-G3P2.3	LM1117	2
STM32F103R8T6	STM32 ARM-based 32-bit MCU with 64 Kbytes Flash, 64-pin LQFP, Industrial Temperature	U3	LQFP64_N	STM32F103R8T6	1
SN75HVD08	Low-Power, Slew-Rate-Limited RS-485/RS-422 Transceiver	U5	SOP8-max485	MAX485CPA	1
MC14067BDW		U6	751E-04_M	MC14067	1
EL8170		U7	751-06_M	EL8170	1
PC817	4-Pin Phototransistor Optocoupler	U8, U9, U10, U11, U12, U13, U14, U15, U16, U17, U18, U19, U20, U21, U22, U23	DIP-4	Optoisolator1	16
XTAL	Crystal Oscillator	Y1	XTL	XTAL	1