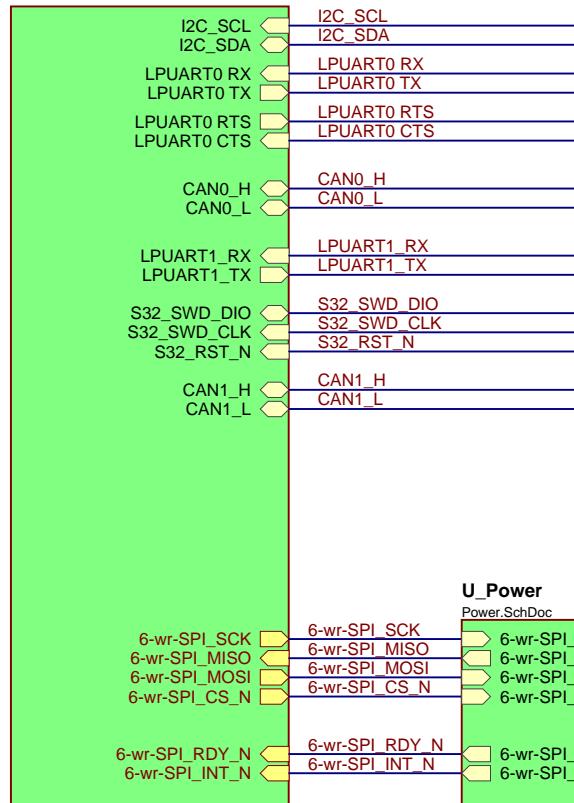


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S32K.SchDoc

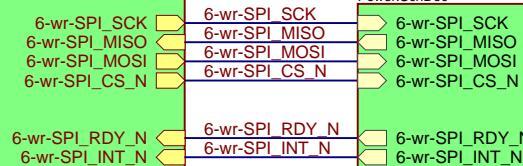


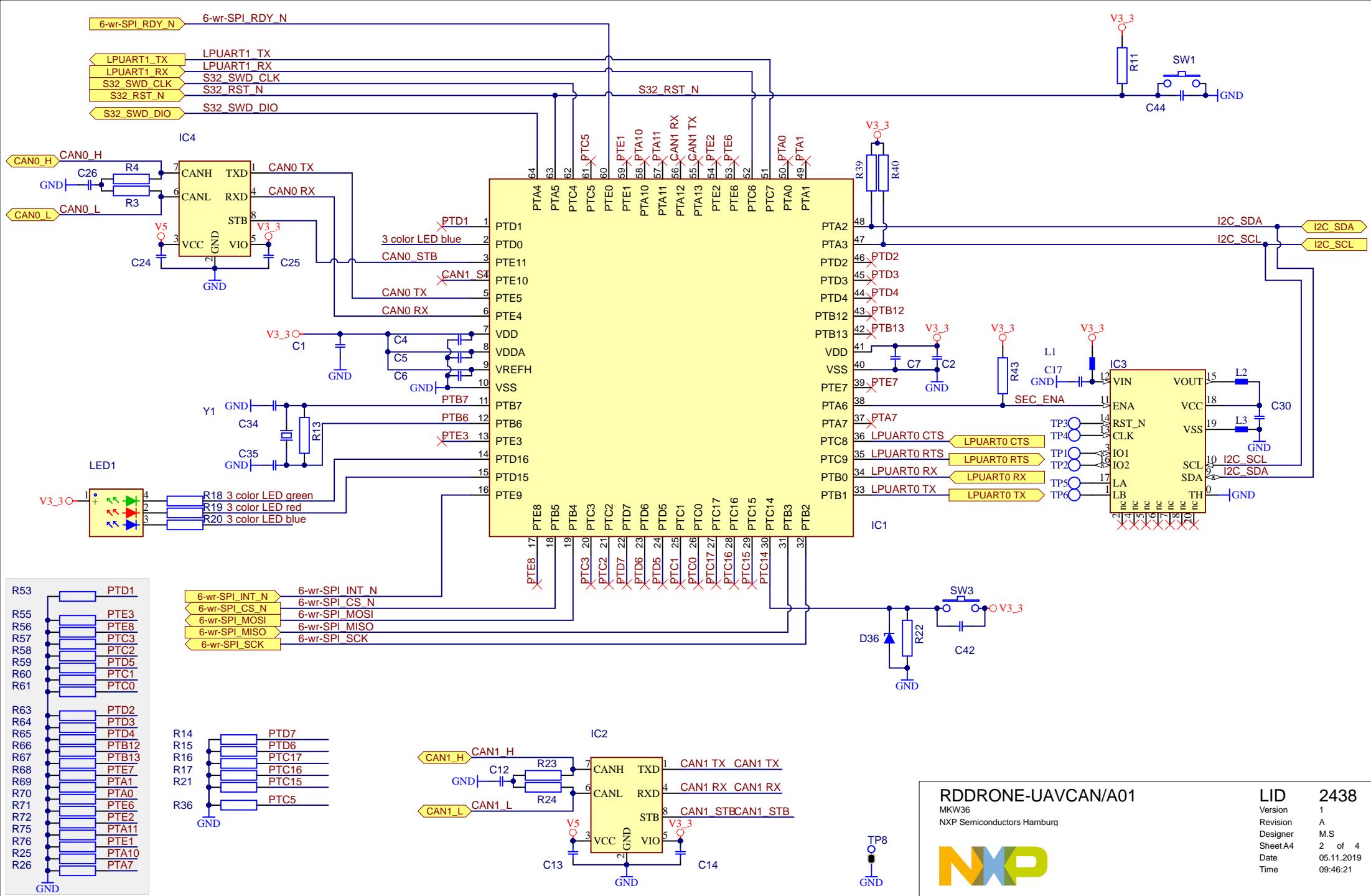
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CONN.SchDoc

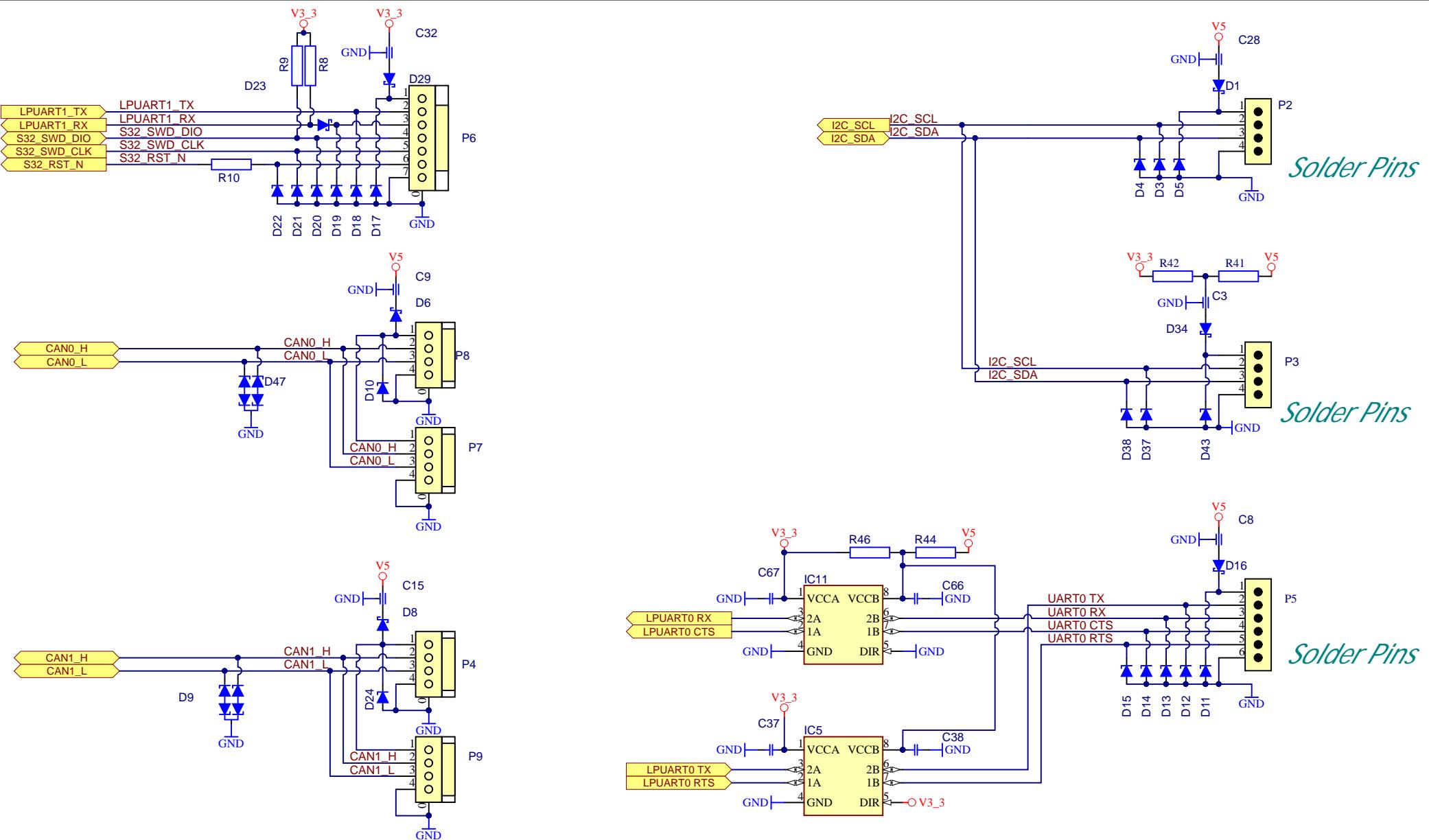


U_Power

Power.SchDoc





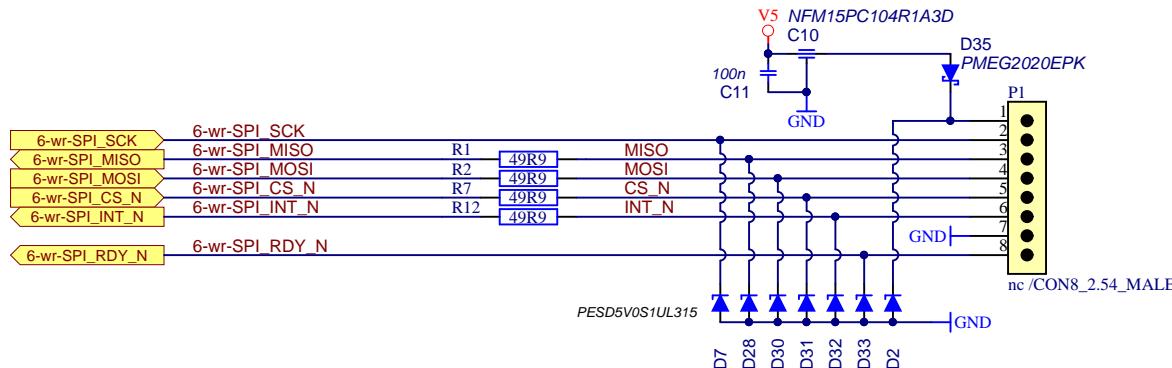


RDDRONE-UAVCAN/A01

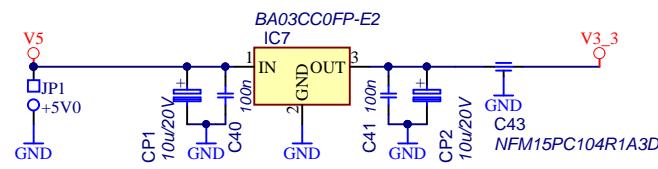
Connector
NXP Semiconductors Hamburg



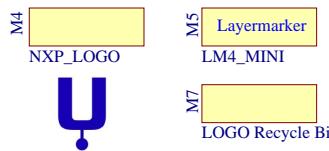
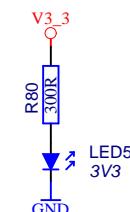
LID 2438
Version 1
Revision A
Designer M.S.
Sheet A4 4 of 4
Date 05.11.2019
Time 09:46:21



Solder Pins



Power Supply

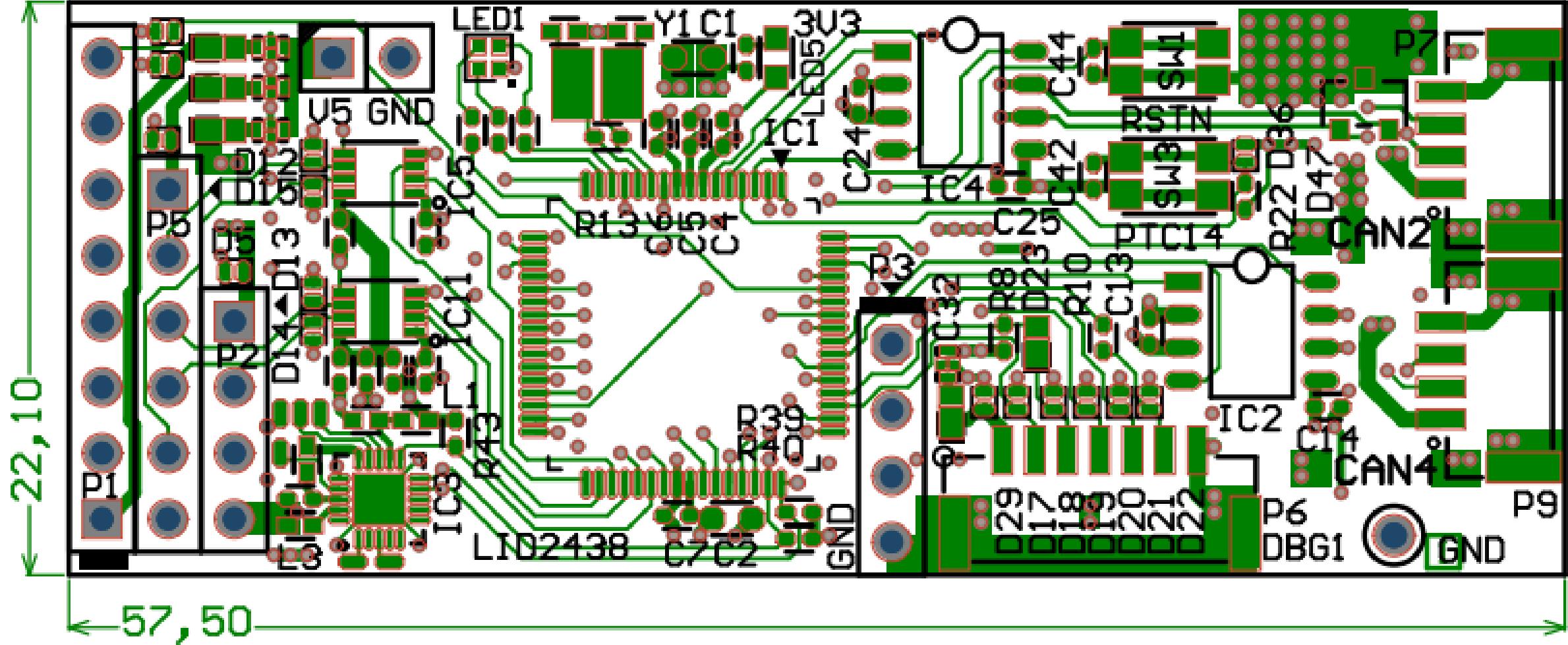


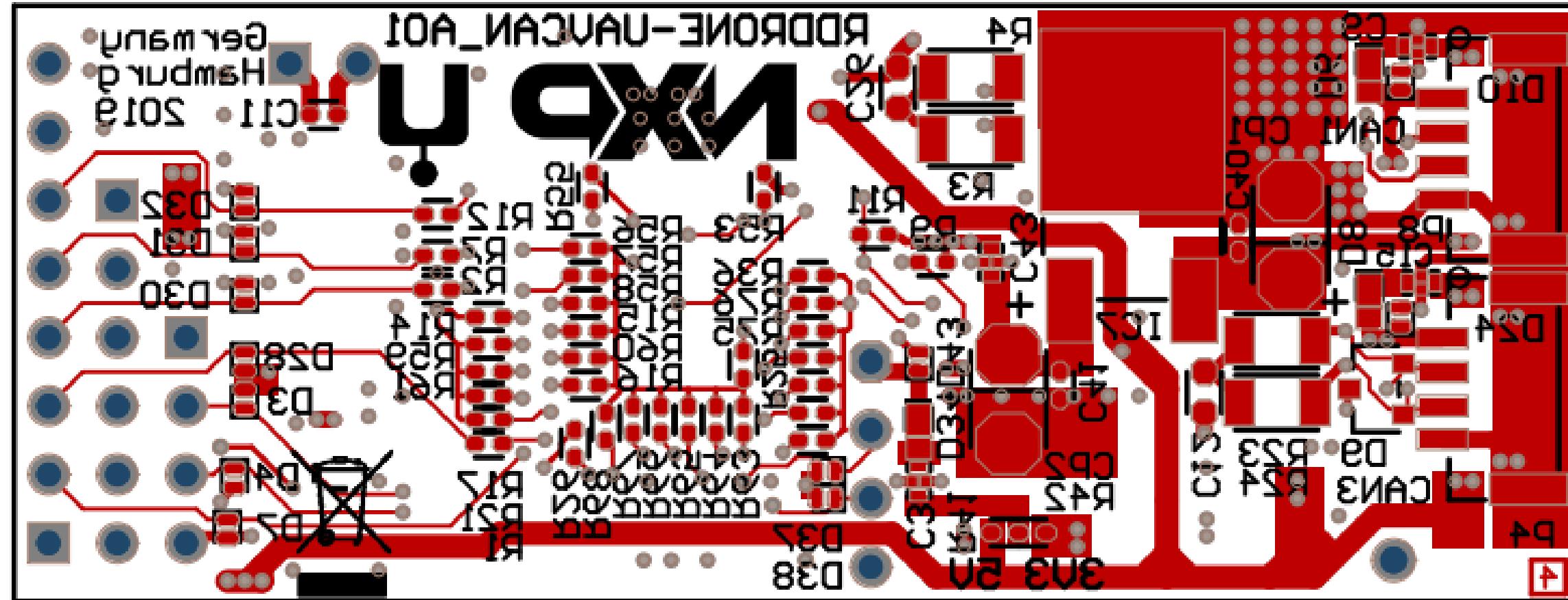
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Power
NXP Semiconductors Hamburg

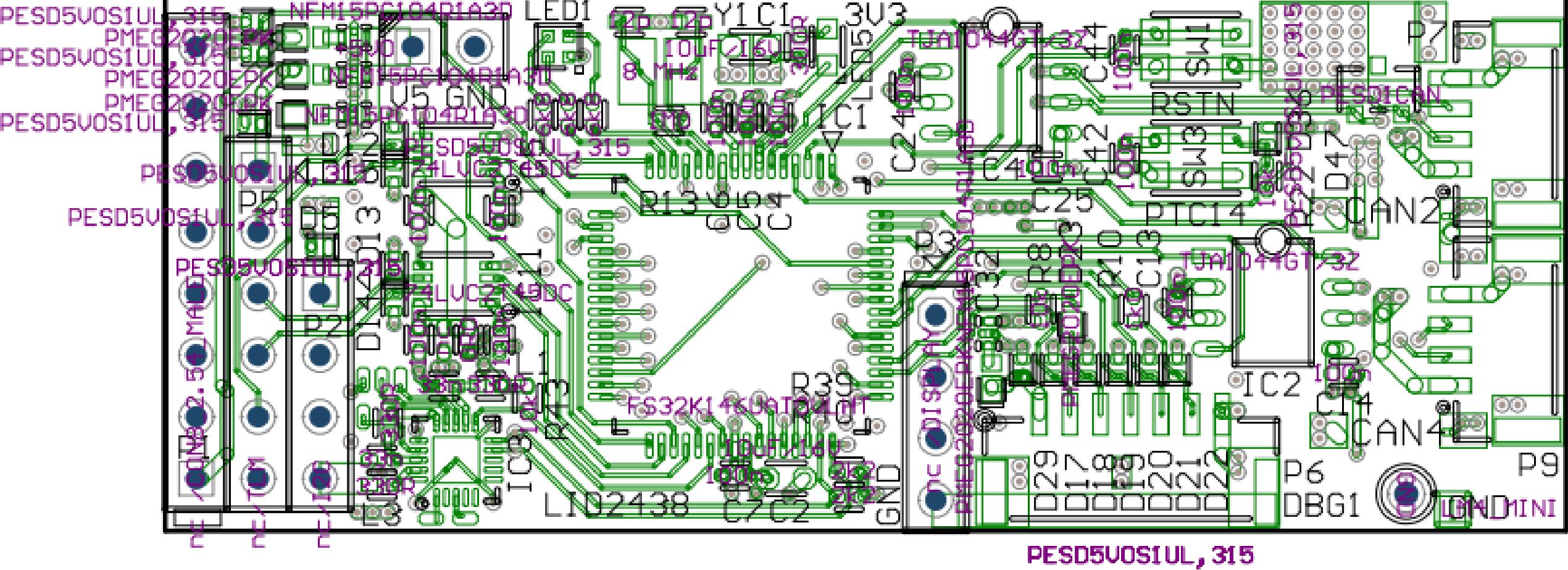


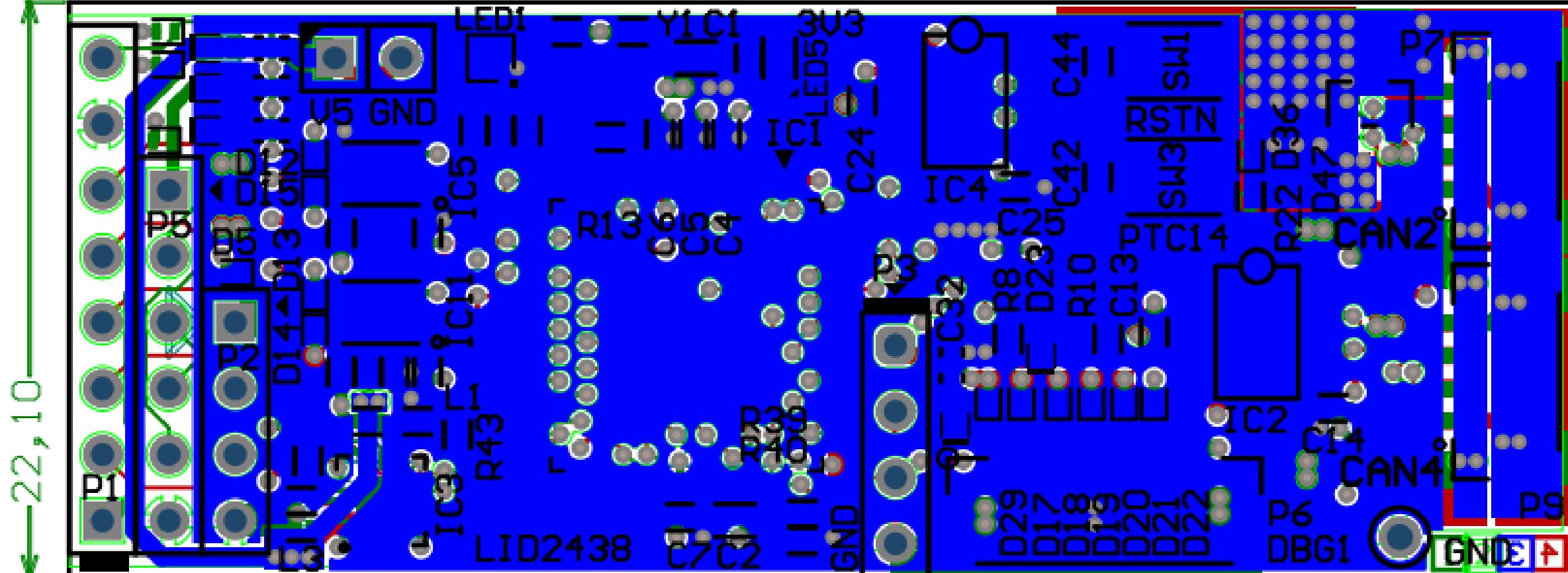
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Revision A
Designer M.S.
Sheet A4 5 of 4
Date 05.11.2019
Time 09:46:22



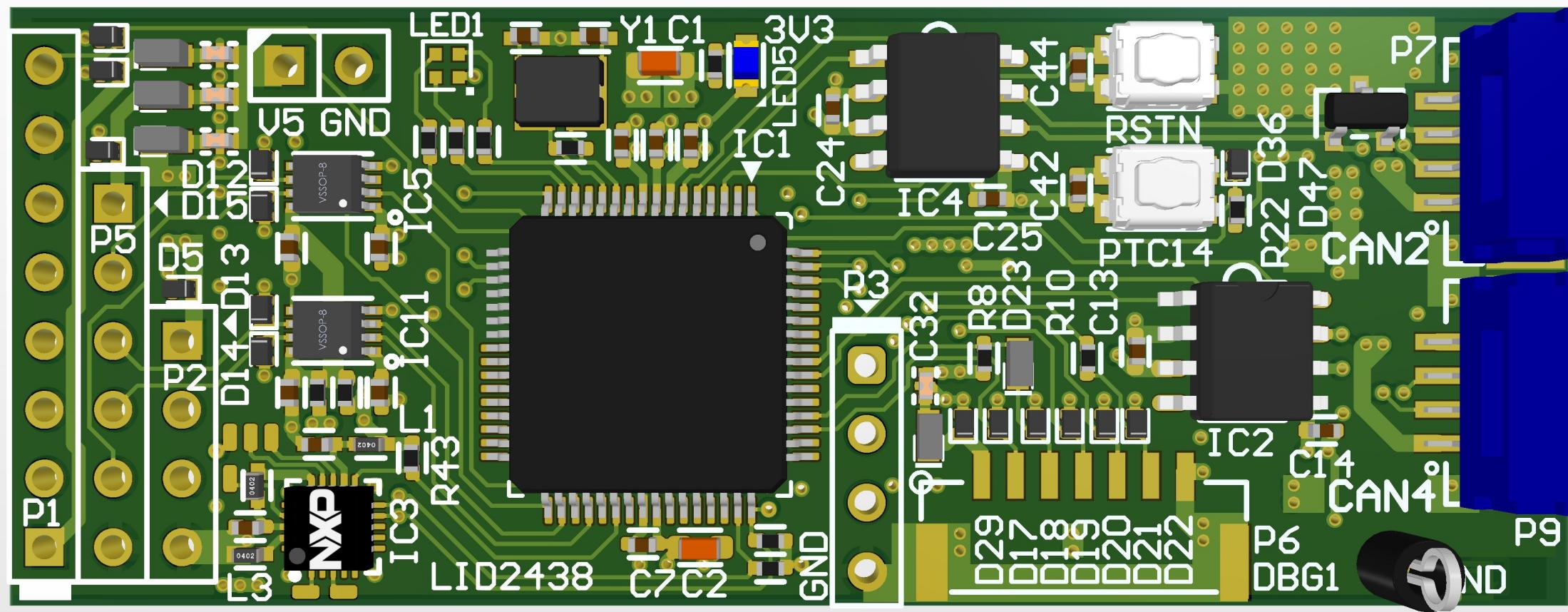


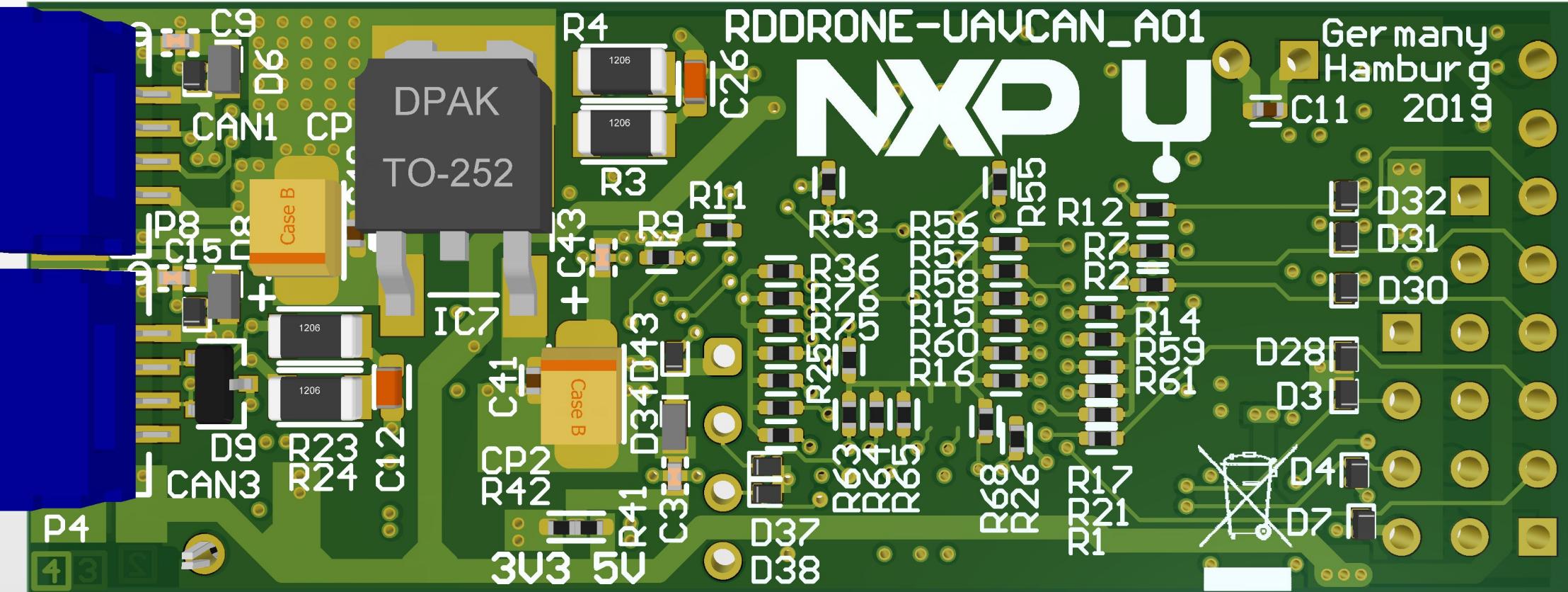
SML-0404SIUPGUSB





57, 50





Designator	Comment	LibRef	Description	Footprint	Quantity	SUPPLIER	SUP1ORD	ITEMID	MAKER	MAKERORD
D7		PESD5V0S1UL31	Lowcapacitance	SOD882	1	Mouser	771-PESD5V0S1U	20155	NXP	PESD5V0S1UL315
JP1	+5V0	JP_2	jumper, 100mil	SIP2	1			2327		
R41	0R0	0r0		0402_RES	1	Farnell	9232516	11839	Phycomp	
R46	0R0	0r0		0402_res	1	Farnell	9232516	11839	Phycomp	
R10	1k0	1k0		0402_RES	1	Didikey	311-1.0KJRTND	349	Yageo Europe GmbH	
R13	1M0	1M0		0402_RES	1	Farnell	9233121	323	Yageo Europe GmbH	
R39	2k2	2k2		0402_RES	1			353		
R40	2k2	2k2		0402_RES	1			353		
LED5	3V3	APT1608LVB/D	Blue, 2mA, 0603	D0603_blue	1	Mouser	604-APT1608LB	20158	Kingbright	APT1608LVB/D
C12	4n7	4n7		0603_cap	1	Farnell	317263	10431	AVX GmbH	
C26	4n7	4n7		0603_cap	1	Farnell	317263	10431	AVX GmbH	
R18	6k8	6k8		0402_res	1	Farnell	9232869	359	Yageo Europe GmbH	
R19	6k8	6k8		0402_res	1	Farnell	9232869	359	Yageo Europe GmbH	
R20	6k8	6k8		0402_res	1	Farnell	9232869	359	Yageo Europe GmbH	
Y1	8 MHz	8 MHz/NX3225	8 MHz, +50ppm	NX3225GD	1	Mouser	344-NX3225GD	20145	NUK	NX3225GD-8MHz-STD-CRA-3
R8	10k	10k		0402_RES	1	Didikey	311-10KJRTND	337	Yageo Europe GmbH	
R9	10k	10k		0402_RES	1	Didikey	311-10KJRTND	337	Yageo Europe GmbH	
R11	10k	10k		0402_RES	1	Didikey	311-10KJRTND	337	Yageo Europe GmbH	
R22	10k	10k		0402_RES	1	Didikey	311-10KJRTND	337	Yageo Europe GmbH	
R43	10k	10k		0402_RES	1	Didikey	311-10KJRTND	337	Yageo Europe GmbH	
CP1	10u/20v	10u_B	capacitor electret	CP_B	1	Farnell	197427	1604	AVX GmbH	
CP2	10u/20v	10u_B	capacitor electret	CP_B	1	Farnell	197427	1604	AVX GmbH	
C1	10uF/16V	EMK107BBJ106W	10uF, 0603, 16V	0603_CAP	1	DigiKey	587-3238-1ND	20146	Taiyo Yuden	EMK107BBJ106WAT
C2	10uF/16V	EMK107BBJ106W	10uF, 0603, 16V	0603_CAP	1	DigiKey	587-3238-1ND	20146	Taiyo Yuden	EMK107BBJ106WAT
C34	12p	12p	capacitor 0402_S	0402_CAP	1	Farnell	7568134	10105	AVX GmbH	
C35	12p	12p	capacitor 0402_S	0402_CAP	1	Farnell	7568134	10105	AVX GmbH	
C17	33n	33n		0402_CAP	1			1231		
C30	33n	33n		0402_cap	1			1231		
R1	49R9	49R9		0402_RES	1			10464		
R2	49R9	49R9		0402_RES	1			10464		
R7	49R9	49R9		0402_RES	1			10464		
R12	49R9	49R9		0402_RES	1			10464		
I05	74LVC2T45DC	74LVC2T45DC	Dual supplytran	VSSOP8/SOT765	1	Farnell	2444915	19984	NEXPERIA	
I11	74LVC2T45DC	74LVC2T45DC	Dual supplytran	VSSOP8/SOT765	1	Farnell	2444915	19984	NEXPERIA	
R14	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R15	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R16	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R17	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R21	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R25	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R26	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R36	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R53	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R55	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R56	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R57	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R58	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R59	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R60	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R61	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R63	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R64	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R65	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R66	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R67	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R68	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R69	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R70	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R71	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R72	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R75	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
R76	100k	100k		0402_RES	1	Farnell	9233008	325	Yageo Europe GmbH	
C4	100n	100n/50V	0402, 50V, 10%	0402_cap	1	Mouser	810-CGA2B3X7R	20021	TDK	CGA2B3X7R1H104K050BE
C5	100n	100n/50V	0402, 50V, 10%	0402_cap	1	Mouser	810-CGA2B3X7R	20021	TDK	CGA2B3X7R1H104K050BE
C6	100n	100n/50V	0402, 50V, 10%	0402_cap	1	Mouser	810-CGA2B3X7R	20021	TDK	CGA2B3X7R1H104K050BE
C7	100n	100n/50V	0402, 50V, 10%	0402_cap	1	Mouser	810-CGA2B3X7R	20021	TDK	CGA2B3X7R1H104K050BE
C11	100n	100n/50V	0402, 50V, 10%	0402_cap	1	Mouser	810-CGA2B3X7R	20021	TDK	CGA2B3X7R1H104K050BE
C13	100n	100n/50V	0402, 50V, 10%	0402_cap	1	Mouser	810-CGA2B3X7R	20021	TDK	CGA2B3X7R1H104K050BE
C14	100n	100n/50V	0402, 50V, 10%	0402_cap	1	Mouser	810-CGA2B3X7R	20021	TDK	CGA2B3X7R1H104K050BE
C24	100n	100n/50V	0402, 50V, 10%	0402_cap	1	Mouser	810-CGA2B3X7R	20021	TDK	CGA2B3X7R1H104K050BE
C25	100n	100n/50V	0402, 50V, 10%	0402_cap	1	Mouser	810-CGA2B3X7R	20021	TDK	CGA2B3X7R1H104K050BE
C37	100n	100n/50V	0402, 50V, 10%	0402_cap	1	Mouser	810-CGA2B3X7R	20021	TDK	CGA2B3X7R1H104K050BE
C38	100n	100n/50V	0402, 50V, 10%	0402_cap	1	Mouser	810-CGA2B3X7R	20021	TDK	CGA2B3X7R1H104K050BE
C40	100n	100n/50V	0402, 50V, 10%	0402_cap	1	Mouser	810-CGA2B3X7R	20021	TDK	CGA2B3X7R1H104K050BE
C41	100n	100n/50V	0402, 50V, 10%	0402_cap	1	Mouser	810-CGA2B3X7R	20021	TDK	CGA2B3X7R1H104K050BE
C42	100n	100n/50V	0402, 50V, 10%	0402_cap	1	Mouser	810-CGA2B3X7R	20021	TDK	CGA2B3X7R1H104K050BE
C44	100n	100n/50V	0402, 50V, 10%	0402_cap	1	Mouser	810-CGA2B3X7R	20021	TDK	CGA2B3X7R1H104K050BE
C66	100n	100n/50V	0402, 50V, 10%	0402_cap	1	Mouser	810-CGA2B3X7R	20021	TDK	CGA2B3X7R1H104K050BE
C67	100n	100n/50V	0402, 50V, 10%	0402_cap	1	Mouser	810-CGA2B3X7R	20021	TDK	CGA2B3X7R1H104K050BE
R80	300R	300R		0402_RES	1	DigiKey	311-300LRCT-ND	14834	Yageo Europe GmbH	
L1	330R	BLM15PX331SN1	330R@100MHz,	0402_F	1	Mouser	81-BLM15PX331SN1	xxx	Murata	BLM15PX331SN1D
L2	330R	BLM15PX331SN1	330R@100MHz,	0402_F	1	Mouser	81-BLM15PX331SN1	xxx	Murata	BLM15PX331SN1D
L3	330R	BLM15PX331SN1	330R@100MHz,	0402_F	1	Mouser	81-BLM15PX331SN1	xxx	Murata	BLM15PX331SN1D
I07	BA03CC0FP-E2	BA03CC0FP-E2	3.0V, 1A, 300mV	DPAK_TO252AA	1	Farnell	2342855	20051		
P8	CANT	SM04B-GHS-TB	4Pin, GH Connec	SM04B-GHS-TB	1		455-1566-6-ND	20150	JST Sales Ameri	SM04B-GHS-TB(LF)(SN)
P7	CAN2	SM04B-GHS-TB	4Pin, GH Connec	SM04B-GHS-TB	1		455-1566-6-ND	20150	JST Sales Ameri	SM04B-GHS-TB(LF)(SN)
P4	CAN3	SM04B-GHS-TB	4Pin, GH Connec	SM04B-GHS-TB	1		455-1566-6-ND	20150	JST Sales Ameri	SM04B-GHS-TB(LF)(SN)
P9	CAN4	SM04B-GHS-TB	4Pin, GH Connec	SM04B-GHS-TB	1		455-1566-6-ND	20150	JST Sales Ameri	SM04B-GHS-TB(LF)(SN)
P6	DBG1	SM07B_GHS_TB	7Pin, GH Connec	SM07B_GHS_TB	1		455-1569-6-ND	20152	JST Sales Ameri	SM07B_GHS_TB(LF)(SN)
I01	FS32K146UATOM	FS32K146UATOM	ARM CortexM4F	LOQFP64/SOT169	1	Mouser	771-FS32K146U	xxx	NXP	FS32K146UATOMHT
TP8	GND	TP_200Z03	Testpoint, black	TP200	1	Farnell	8731128	10427	VERO	
M5	LM4 MINI	LM4 MINI	Layer Marker	LM_4_Mini	1	- no supplier	no order number	20000	no Maker	
M7	LOGO Recycle Bin	LOGO RECYCLE B	LOGO Recycle Bin	LOGO_RECY_5M	1	- no supplier	no order number	20000	no Maker	
R3	nc	60R4	ThickFilm 1206	1206	1	Farnell	1653156	19978		
R4	nc	60R4	ThickFilm 1206	1206	1	Farnell	1653156	19978		
R23	nc	60R4	ThickFilm 1206	1206	1	Farnell	1653156	19978		
R24	nc	60R4	ThickFilm 1206	1206	1	Farnell	1653156	19978		
R42	nc	0R0		0402_RES	1	Farnell	9232516	11839	Phycomp	
R44	nc	0R0		0402_res	1	Farnell	9232516	11839	Phycomp	
P1	nc/CON8_2..254	CON8_2..254_MALE	Male header, sir	CON8_2..254_MALE	1			2327		
P3	nc/DISPLAY	CON4_2..254_MALE	Male header, sir	CON4_2..254_MALE	1	Fischer Elektronik	SL102532_G	2327	Fischer Elektronik	
P2	nc/IC2	CON4_2..254_MALE	Male header, sir	CON4_2..254_MALE	1	Fischer Elektronik	SL102532_G	2327	Fischer Elektronik	
P5	nc/TIM	CON6_2..254_MALE	Male header, sir	CON6_2..254_MALE	1			2327		
C3	NFM15PC104R1A	NFM15PC104R1A	0.1uF, 10V, 20%	0402_3	1	Mouser	81-NFM15PC104R1A	20159	MURATA	NFM15PC104R1A3D
C8	NFM15PC104R1A	NFM15PC104R1A	0.1uF, 10V, 20%	0402_3	1	Mouser	81-NFM15PC104R1A	20159	MURATA	NFM15PC104R1A3D
C9	NFM15PC104R1A	NFM15PC104R1A	0.1uF, 10V, 20%	0402_3	1	Mouser	81-N			

D9	PESD1CAN	PESD1CAN	ESD-Schutzbau	SOT23-3	1	Farnell	2413845	19402	NXP		
D47	PESD1CAN	PESD1CAN	ESD-Schutzbau	SOT23-3	1	Farnell	2413845	19402	NXP		
D2	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D3	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D4	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D5	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D10	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D11	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D12	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D13	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D14	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D15	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D17	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D18	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D19	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D20	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D21	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D22	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D24	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D28	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D30	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D31	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D32	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D33	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D36	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D37	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D38	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D43	PESD5VOS1UL3T	PESD5VOS1UL3T	Lowcapacitance	SOD882	1	Mouser	771-PESD5VOS1U	20155	NXP	PESD5VOS1UL3T	
D1	PMEG2020PK	PMEG2020PK	DIODE SCHOTT	SOD1608	1	Mouser	771-PMEG2020U	20156	Nexperia	PMEG2020EPK315	
D6	PMEG2020PK	PMEG2020PK	DIODE SCHOTT	SOD1608	1	Mouser	771-PMEG2020U	20156	Nexperia	PMEG2020EPK315	
D8	PMEG2020EPK	PMEG2020EPK	DIODE SCHOTT	SOD1608	1	Mouser	771-PMEG2020U	20156	Nexperia	PMEG2020EPK315	
D16	PMEG2020EPK	PMEG2020EPK	DIODE SCHOTT	SOD1608	1	Mouser	771-PMEG2020U	20156	Nexperia	PMEG2020EPK315	
D23	PMEG2020PK	PMEG2020PK	DIODE SCHOTT	SOD1608	1	Mouser	771-PMEG2020U	20156	Nexperia	PMEG2020EPK315	
D29	PMEG2020PK	PMEG2020PK	DIODE SCHOTT	SOD1608	1	Mouser	771-PMEG2020U	20156	Nexperia	PMEG2020EPK315	
D34	PMEG2020PK	PMEG2020PK	DIODE SCHOTT	SOD1608	1	Mouser	771-PMEG2020U	20156	Nexperia	PMEG2020EPK315	
D35	PMEG2020EPK	PMEG2020EPK	DIODE SCHOTT	SOD1608	1	Mouser	771-PMEG2020U	20156	Nexperia	PMEG2020EPK315	
SW3	PTC14	EVPA602W	3.5 mm 2.9 mm S	EVPA602W	1	RS Components	756-1653	18738	Panasonic Industrial		
IC3	SE050C1HQ1/Z0	SE050C1HQ1/Z0	Plug & Trust Sct	HX20FN20	1	Mouser	771-SE050C1HQ	xxx	NXP	SE050C1HQ1/Z01SCZ	
LED1	SML-0404SIURGU	SML-0404SIUPGU	LED-MULTI 4-1e-0404		1	Mouser	696-LX0404SIUR	19886	LUMEX	SML-LX0404SIURGUSB	
IC2	TJA1044GT/32	TJA1044GT/32	High-speed CAN	S08/S0T96	1	Mouser	771-TJA1044GT/3	20157	NXP	TJA1044GT/32	
IC4	TJA1044GT/32	TJA1044GT/32	High-speed CAN	S08/S0T96	1	Mouser	771-TJA1044GT/3	20157	NXP	TJA1044GT/32	
TP1	TP_SMD_1x65mm	TP_SMD_1x65mm	TestpointSMD	1_TP_SMD_1x65mm	1			0			
TP2	TP_SMD_1x65mm	TP_SMD_1x65mm	TestpointSMD	1_TP_SMD_1x65mm	1			0			
TP3	TP_SMD_1x65mm	TP_SMD_1x65mm	TestpointSMD	1_TP_SMD_1x65mm	1			0			
TP4	TP_SMD_1x65mm	TP_SMD_1x65mm	TestpointSMD	1_TP_SMD_1x65mm	1			0			
TP5	TP_SMD_1x65mm	TP_SMD_1x65mm	TestpointSMD	1_TP_SMD_1x65mm	1			0			
TP6	TP_SMD_1x65mm	TP_SMD_1x65mm	TestpointSMD	1_TP_SMD_1x65mm	1			0			
SW1	uCPAT5_RSTN	EVPA602W	3.5 mm 2.9 mm S	EVPA602W	1	RS Components	756-1653	18738	Panasonic Industrial		