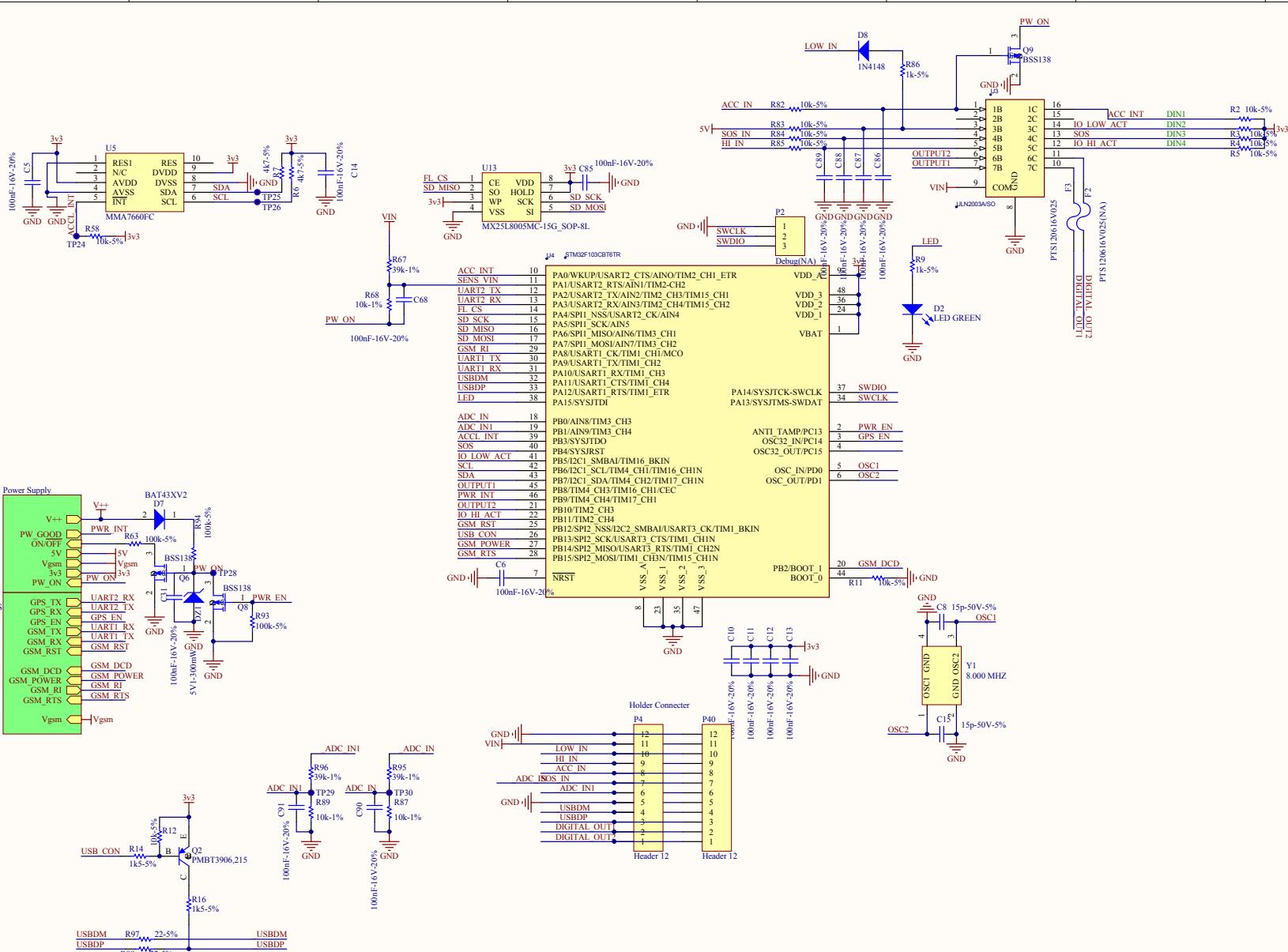
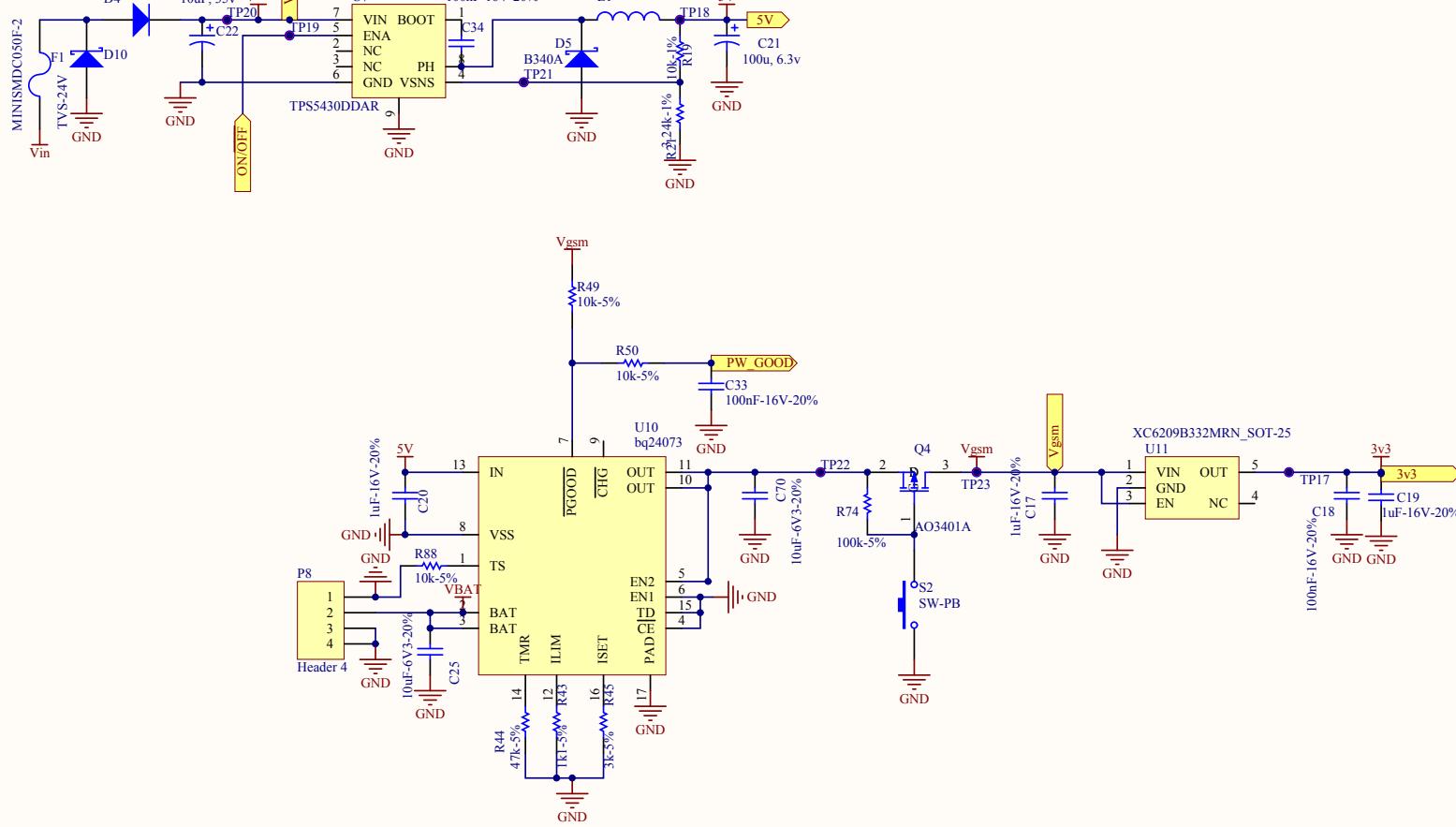


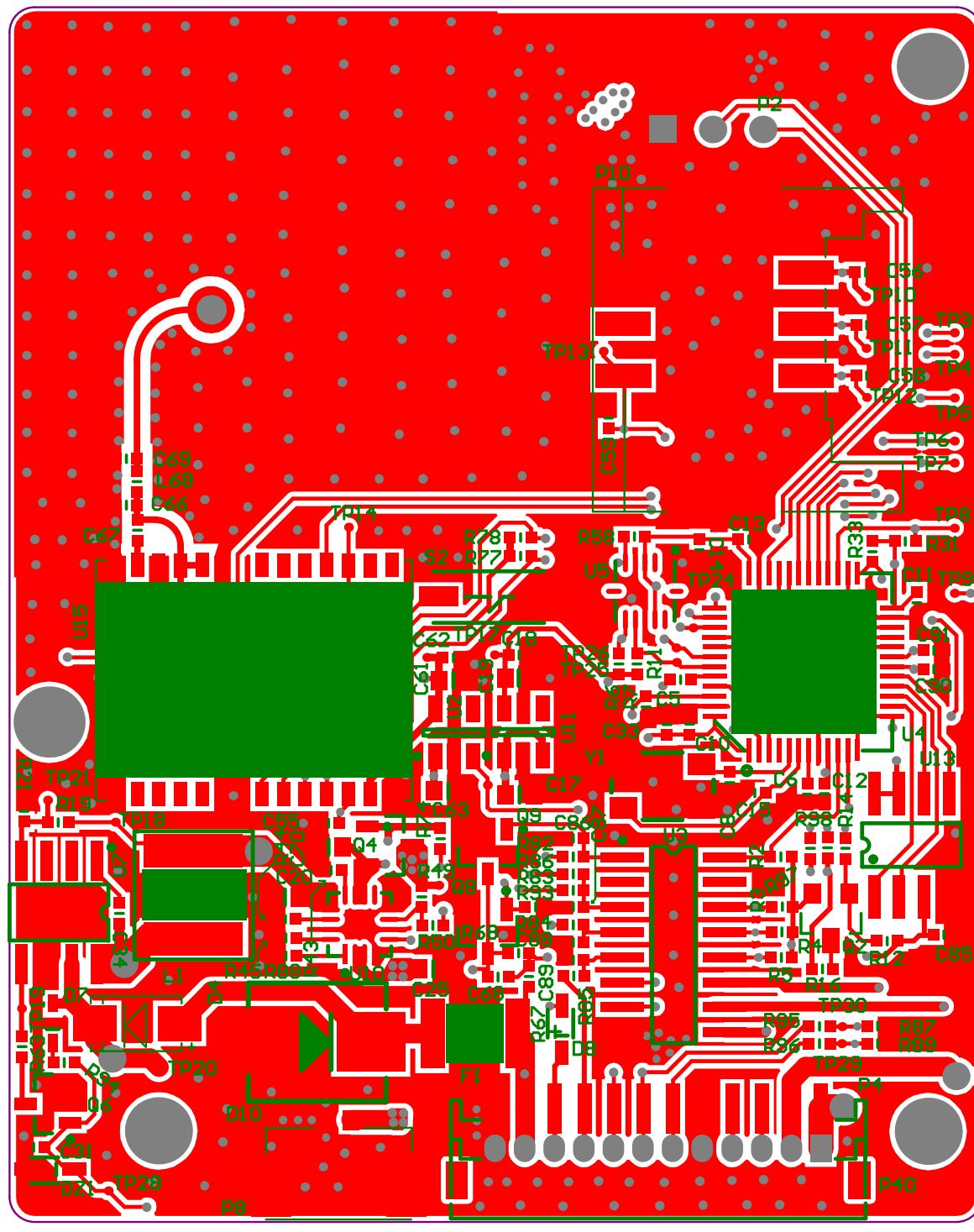
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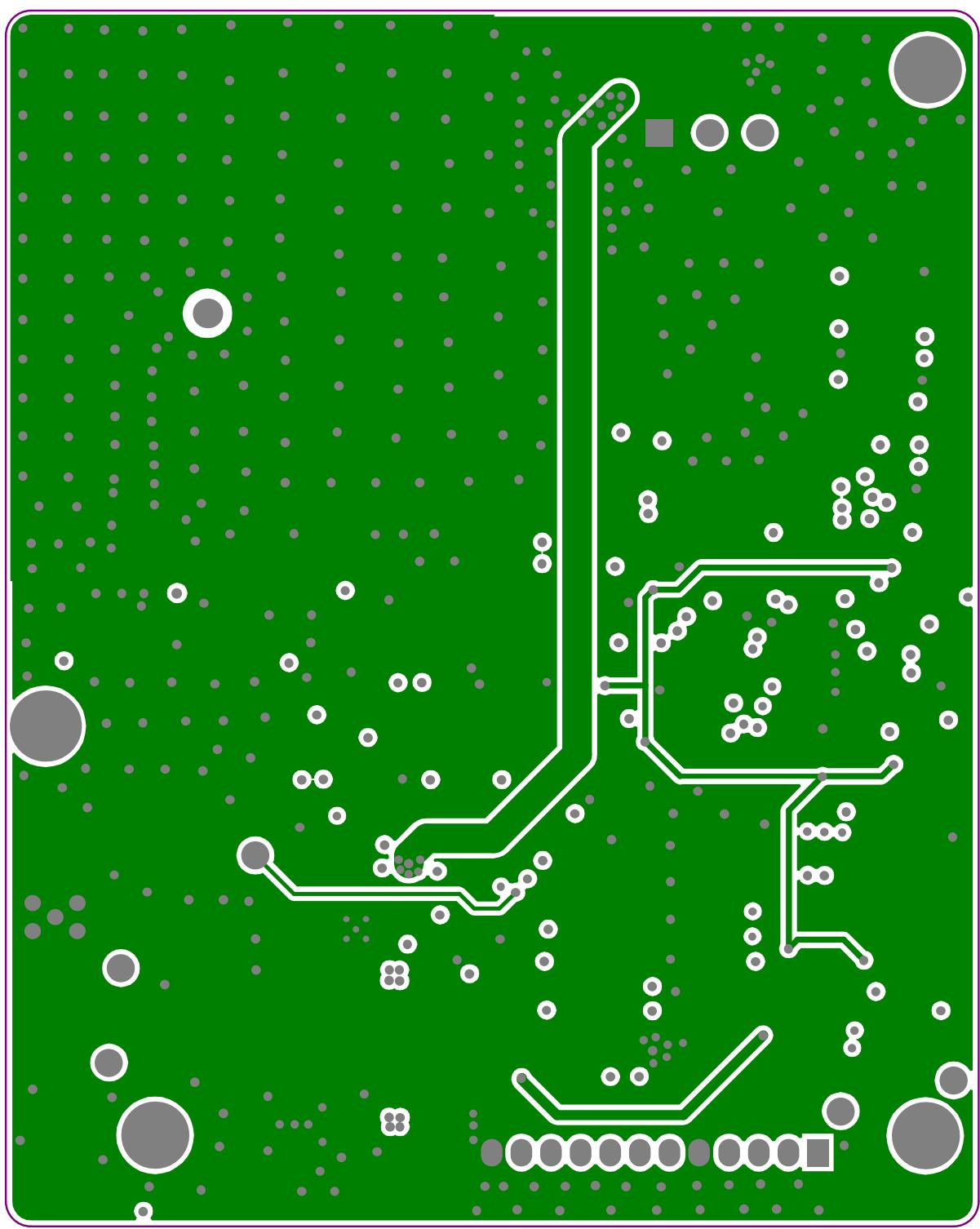


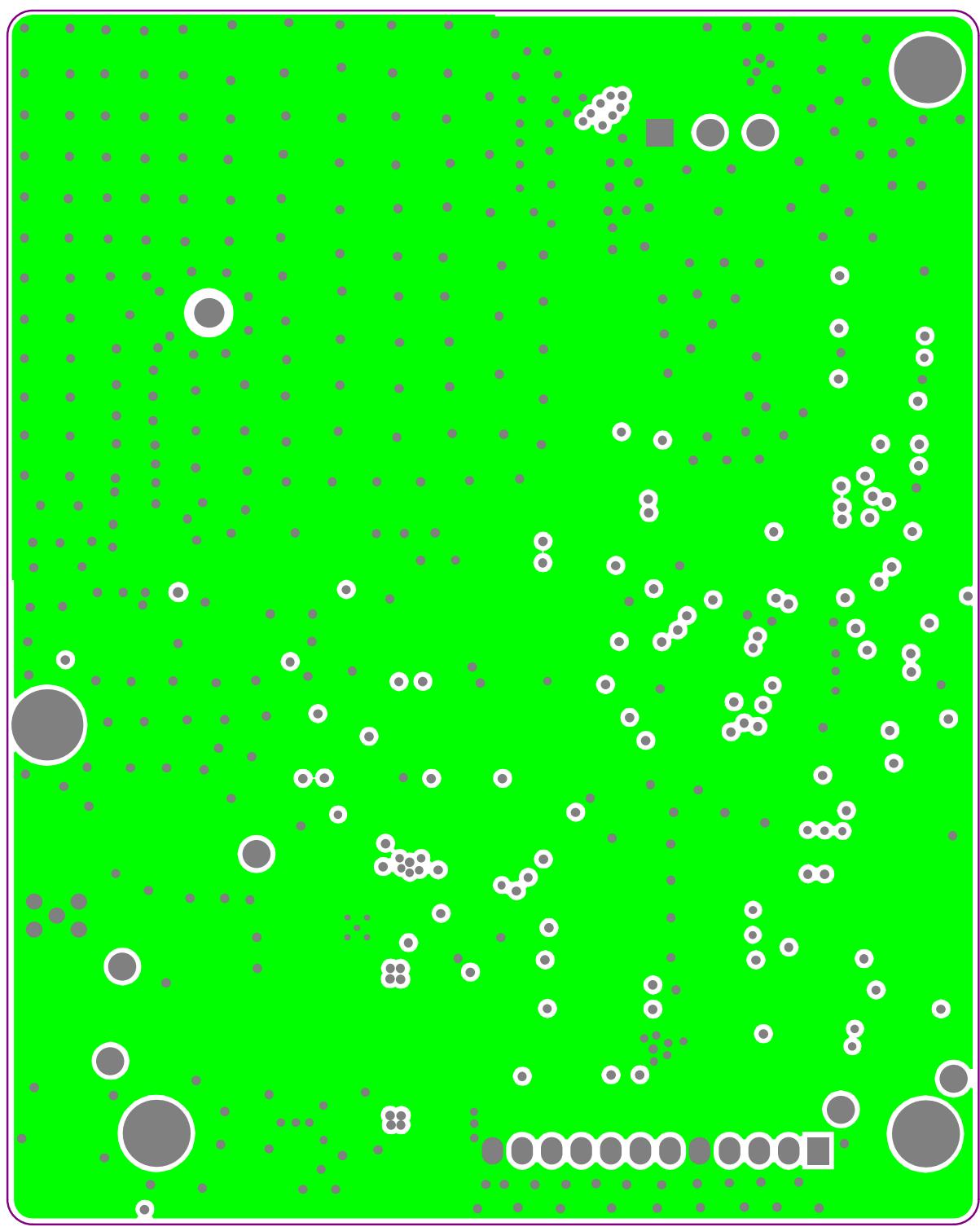
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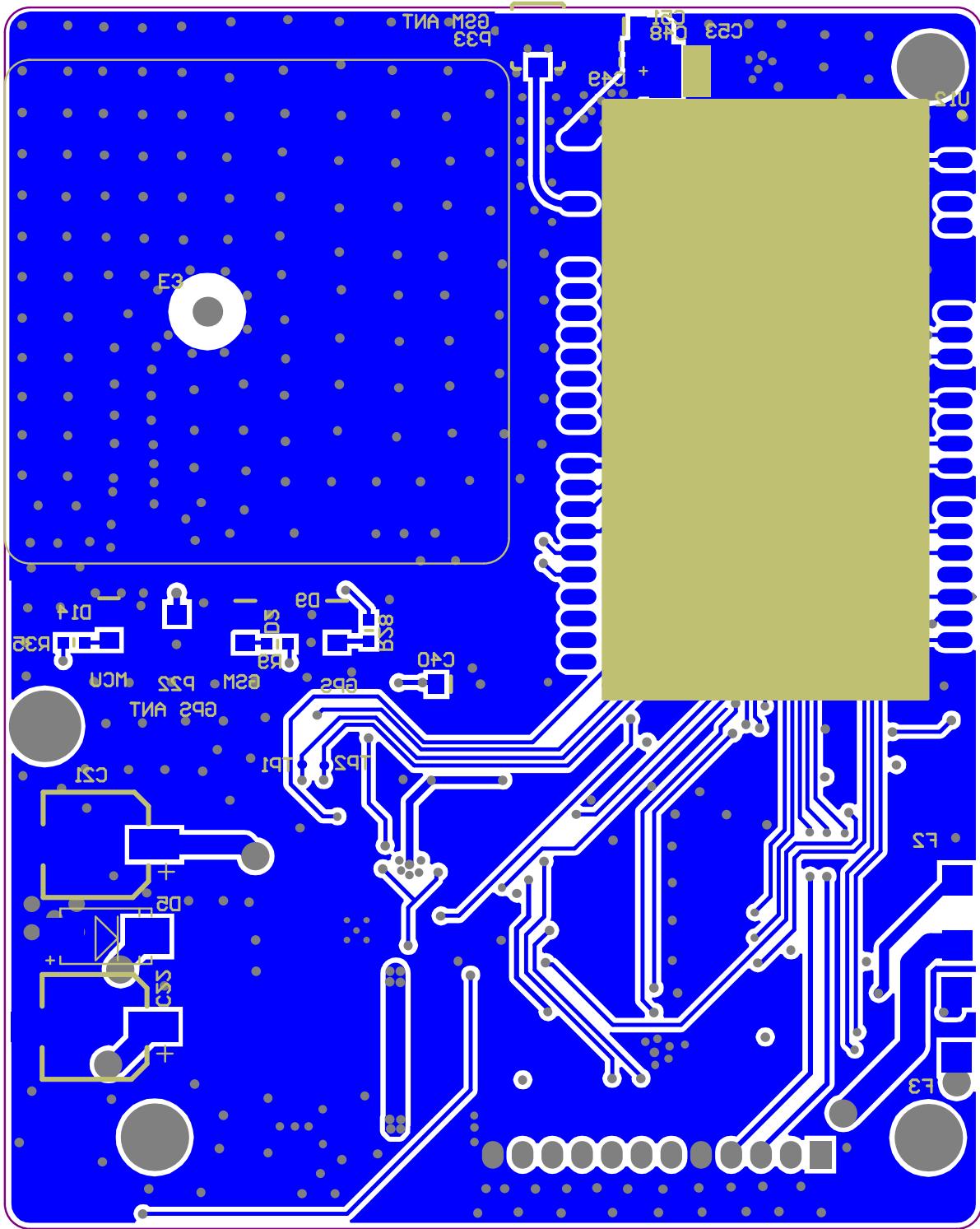


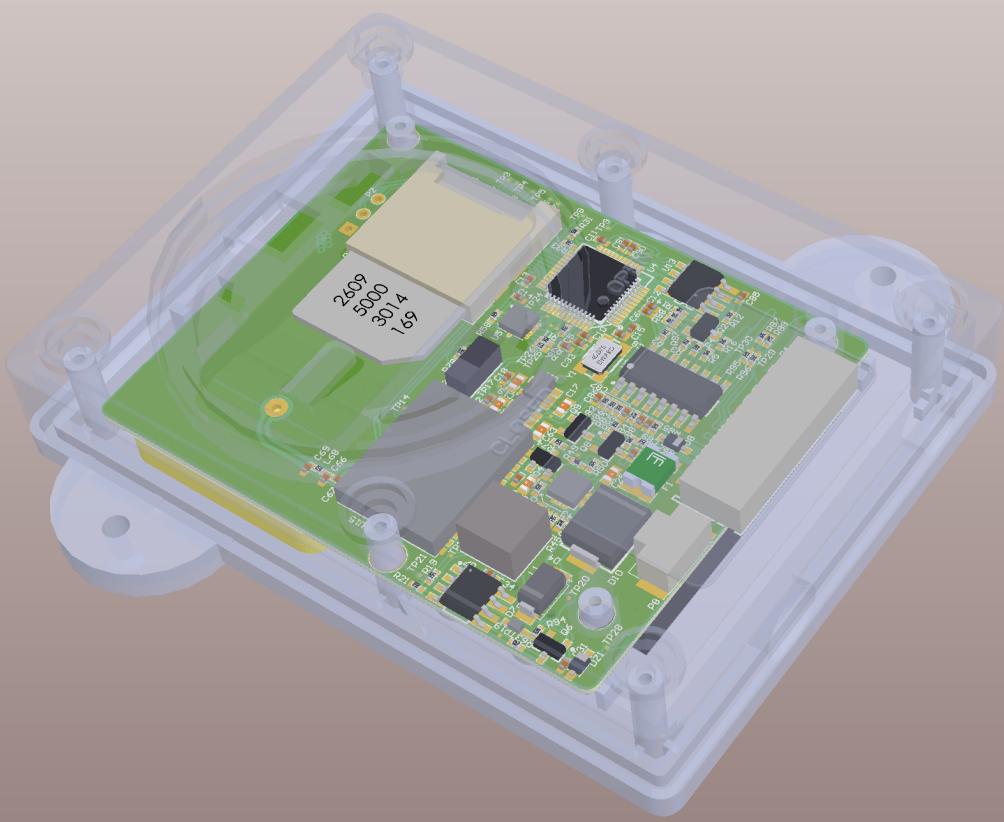
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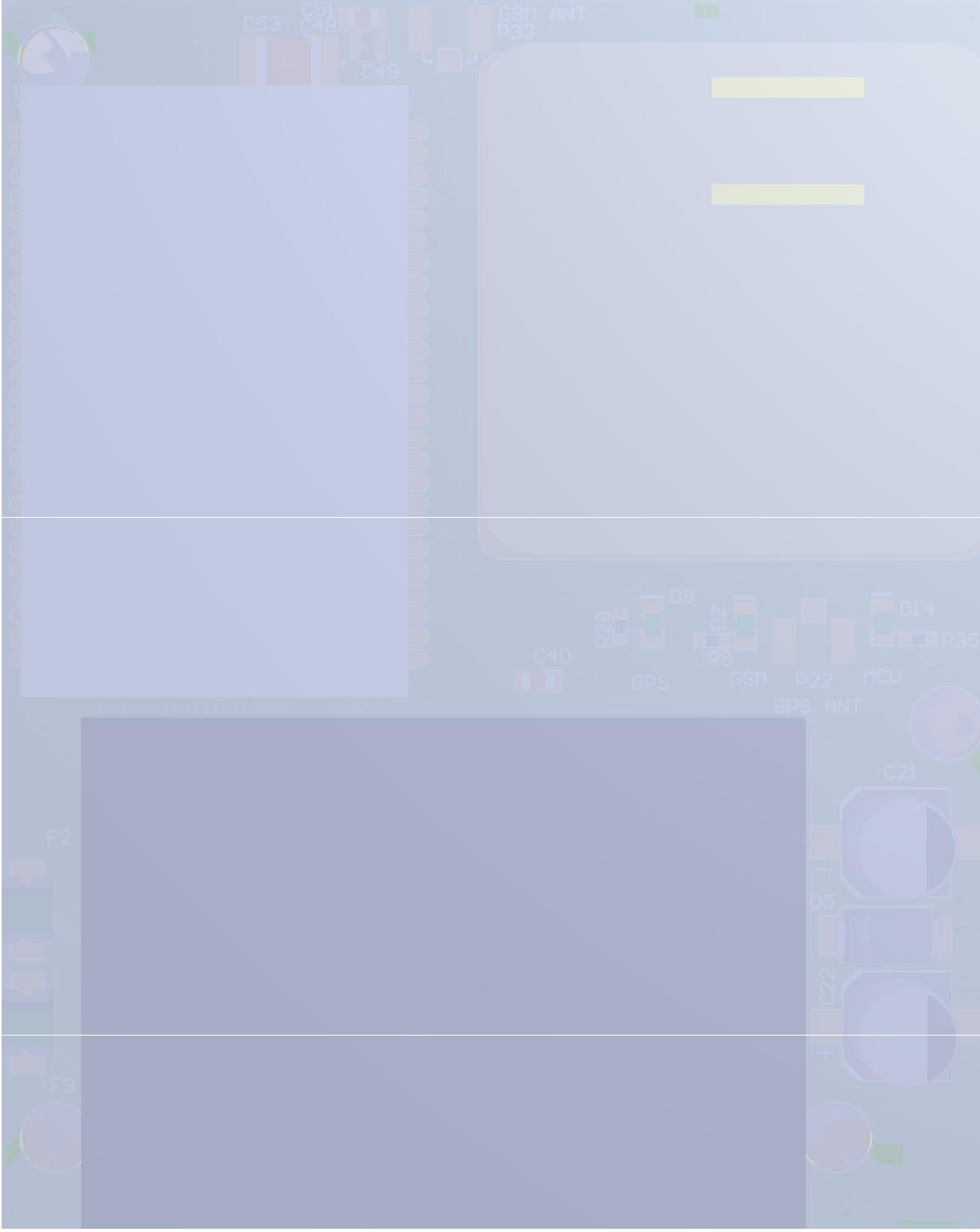


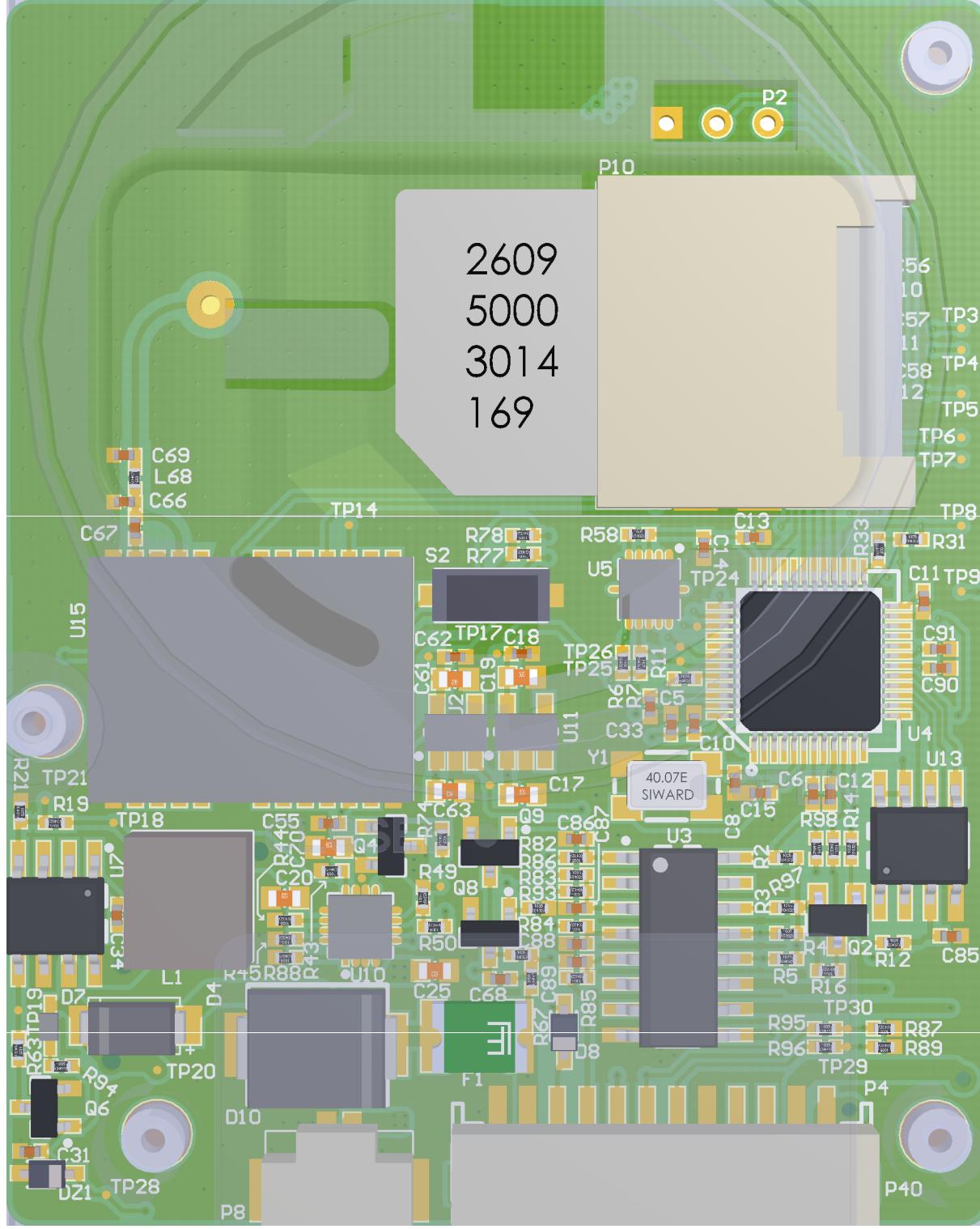












Comment	Designator	Description	Digit-Key Part Number	Footprint	Manufacturer	Manufacturer Part Number	Quantity	Unit Price	Web	Remark
100nF-16V-20%	C5, C6, C10, C11, C12, C13, C14, C18, C31, C33, C34, C55, C56, C62, C68, C85, C86, C87, C88, C89, C90, C91	CAP CER 0.1UF 16V 10% 0402 CAP CER 10000PF 16V 10% X7R 0402	311-1042-2-ND 311-1047-1-ND	C0402	Yageo	CO0402KRX7RB103, CO0402R2RY5VB104	22	0.00250		
15p-50V-5%	C8, C15, C48	CAP CER 15PF 50V 5% NPO 0402	311-1017-1-ND	C0402	Yageo	CO0402JNP09BN150	3	0.00270		
1uF-16V-20%	C17, C19, C20, C51, C63	CAP CER 1UF 16V Y5V 0603	311-1372-1-ND	C0603	Yageo	CO0603ZRY5VB105	5	0.00465		
100u, 6.3v	C21	CAP ALUM 1000uF 10V 20% SMD	PCE3867TR-ND	CAPACITOR SIZE_Q(D5.3)	Panasonic Electronic Components	EEE-1AA101WR	1	0.07733		
10uF, 35v	C22	CAP ALUM 10uF 35V 20% SMD	PCE3947TR-ND	CAPACITOR SIZE_Q(D5.3)	Panasonic Electronic Components	EEE-1VA100SR	1	0.07875		
10uF-6V3-20%	C25, C40, C61, C70	CAP CER 10UF 6.3V 20%X6R 0603	311-1448-1-ND, 490-3896-1-ND	C0603	Murata Electronics North America, Yageo	CO0603MRX5R5BB106, GRM188R60J106ME47D	4	0.06176, 0.07873		
33p-50V-5%	C49	CAP CER 33PF 50V 5% NPO 0402	311-1020-1-ND	C0402	Yageo	CO0402JNP09BN330	1	0.00270		
100u, ceramic	C53	CAP CER 100UF 10V 20%X5R 1812	445-7743-2-ND	C1210	TDK Corporation	C4532X5R1A107M	1	0.55800		
47p-50V-5%	C57, C58, C59, C66, C67, C69	CAP CER 47PF 50V 5% NPO 0402	311-1021-1-ND	C0402	Yageo	CO0402JNP09BN470	6	0.00270		NA
LED GREEN	D2, D9, D14	LED GREEN CLEAR THIN 0603 SMD	160-1446-2-ND	LED0603-G	Lite-On Inc	LITST-C191KGKT	3	0.03780		
1N4007	D4	DIODE GEN PURPOSE 1000V 1A SMA	641-1018-1-ND	DO-214AC (SMA)	Creechip Technology	CGR4A007-G	1	0.05130		
B340A	D5	DIODE SCHOTTKY 40V 3A SMA	E3/61TGT-ND	DO-214AC (SMA)	Vishay General Semiconductor	B340A-E3/61T	1	0.15840		
BAT43XV2	D7	Diode Type SMD	BAT43XV2CT-ND	BAT43XV2	Fairchild Semiconductor	BAT43XV2	1	0.01822		
1N4148	D8	DIODE SWITCH 75V 200mW SOD323	1N4148WS-FDITR-ND	SOD323	Diodes Inc	1N4148WS-7-F	1	0.02933		
TVS-24V	D10	DIODE TVS 24V 1500W UNI 5% SMC	SMC124ALFTR-ND	DO-214AB (SMC)		SMC124A	1	0.24800		
5V1-300mW	D21	Zener Diode	SOD323				1			
Antenna	E3	Generic Antenna				GPS_ANTENA	1			
MINISMD050F-2	F1	POLYSWITCH 50A RESET FUSE SMD	MINISMD050FC-ND	PTC1812	TE Connectivity	MINISMD050F-2	1	0.17304		
PTS120616V025(NA)	F2	PTC RESETTABLE SMD 1206 16V .25A	283-3137-2-ND	PTC1206	Cooper Bussmann	120616V025	1	0.12375		NA
PTS120616V025	F3	PTC RESETTABLE SMD 1206 16V .25A	283-3137-2-ND	PTC1206	Cooper Bussmann	120616V025	1	0.12375		
68uH-20%	L1	INDUCTOR POWER 68uH SMD	ASPL-6045S-680M-TTTR-ND	68uH-1A	Abracor Corporation	ASPL-6045S-680M-T	1	0.22500		
12nH-5%	L68	INDUCTOR 12nH 300mA 0402	490-2624-2-ND	R0402	Murata Electronics North America	LQG15HS12NU02D	1	0.01872		
Debug(NA)	P2	NA	HDR1X3				1			NA
Header 12	P4	Header, 12-Pin	C1512M1HR0	CviLux	CviLux	C1512M1HR0	1			http://www.cvilux.com.tw/product.aspx?serial=C1502M1H10
Header 4	P6	Header, 4-Pin	BAT_CONNECT				1			
SIM CARD HOLDER	P10	SIM_CONNECTOR_410108105011-2LF	SIM MF01-412-063X	Tyrene			1			
GPS Antena Connector(NA)	P22	GPS Antena	IPX SMD PCB Plug				1.025			NA
GSM Antena conector	P33	GSM Antena	IPX SMD PCB Plug				1.025			
Header 12	P40	Header, 12-Pin	C1512P1HK0-LF				1			
PMBT3906.215	Q2		568-1742-2-ND	SC43-BCE	NXP Semiconductors	PMBT3906.215	1	0.02070		http://tiny.cc/Product.aspx?id=414#page=pro_info
AO3401A	Q4	MOSFET P-CH -30V -4.3A SOT23	785-1001-1-ND	SOT23-3	Alpha & Omega Semiconductor Inc	AO3401A	1	0.12400		NA
BSS138	Q6, Q8, Q9	MOSFET N-CH 50V 200mA SOT23-3	BSS138-FDICT-ND	SOT23-3	Diodes Inc	BSS138-7-F	3	0.06575		
10k-5%	R2, R3, R4, R5, R11, R12, R31, R33, R49, R50, R58, R82, R83, R84, R85, R88	RES 10.0 OHM 1/16W 5% 0402 SMD	311-10KLRCT-ND	R0402	Yageo	RC0402JR-0710KL	16	0.00178		
4k-7.5%	R6, R7, R77, R78	RES 4.7K OHM 1/16W 5% 0402 SMD	311-4.7KLRCT-ND	R0402	Yageo	RC0402JR-0747KL	4	0.00178		
1k-5%	R9, R28, R35, R86	RES 1.0K OHM 1/16W 5% 0402 SMD	311-1.0KJRCT-ND	R0402	Yageo	RC0402JR-071KL	4	0.00178		
1k5-5%	R14, R16	RES 1.5K OHM 1/16W 5% 0402 SMD	311-1.5KLRCT-ND	R0402	Yageo	RC0402JR-071K5L	2	0.00207		
10k-1%	R19, R68, R87, R89	RES 10.0 OHM 1/10W 1% 0402 SMD, RES 10.0K OHM 1/16W 1% 0402 SMD	311-10.0KLRTR-ND, P10.0KLRTR-ND	R0402	Panasonic Electronic Components, Yageo	ERJ-2RKF1002X, RC0402FR-0710KL	4	0.00149, 0.00203		
3.24k-1%	R21	RES 3.24K OHM 1/10W 1% 0402 SMD	P3.24KLRTR-ND	R0402	Panasonic Electronic Components	ERJ-2RKF3241X	1	0.00203		
1K-5%	R43	RES 1.1K OHM 1/16W 5% 0402 SMD	311-1.1KJRCT-ND	R0402	Yageo	RC0402JR-071K1L	1	0.00207		
47k-6%	R44	RES 47K OHM 1/16W 5% 0402 SMD	311-47KLRCT-ND	R0402	Yageo	RC0402JR-0747KL	1	0.00178		
3k-5%	R45	RES 1.5K OHM 1/16W 5% 0402 SMD	311-3.0KJRCT-ND	R0402	Yageo	RC0402JR-073KL	1	0.00207		
100k-5%	R63, R74, R93, R94	RES 100K OHM 1/16W 5% 0402 SMD	311-100KJRCT-ND	R0402	Yageo	RC0402JR-07100KL	4	0.00171		
39k-1%	R67, R95, R96	RES 39.0 OHM 1/16W 5% 0402 SMD	311-39.0KLRTR-ND	R0402	Yageo	RC0402FR-0739KL	3	0.00149		
22-5%	R97, R98	RES 22 OHM 1/16W 5% 0402 SMD	311-22JRCT-ND	R0402	Yageo	RC0402JR-0722RL	2	0.00178		
SW-PB	S2	SWITCH DIP 1-POS SLIDE SMD	563-1003-2-ND	SWITCH-1	Copal Electronics Inc	CHS-01TA	1	0.48436		
TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20, TP21, TP22, TP23, TP24, TP25, TP26, TP28, TP29, TP30			test_point				29			
XO6209B332MRN_SOT-25	U2, U11	XO6209B332MRN_SOT-25	SOT23-5	Tyrene			2			
ULN2003A/SO	U3	IC DARL TRANS ARRAY 16-SOIC	296-1368-2-ND	SO16-150mil	Texas Instruments	ULN2003ADR	1	0.144		
STM32F103CBT6TR	U4	MCU ARM 128K FLASH/TIMER	497-6288-ND	TQFP-48-P0.5	STMicroelectronics	STM32F103CBT6TR	1	1.2		
MMA7660FC	U5	ACCELEROMETER 3X DGLT 10-DFN	MMA7660FC-ND	MMA7660FC	Freescale Semiconductor	MMA7660FC	1	0.67000		
TP55430DDAR	U7	IC REG BUCK ADJ 1A 8SOIC	296-26982-2-ND	HSDIOICN	Texas Instruments	TP55430DDAR	1	1.6		
bq24073	U10	IC LI-ION CHARGE/PWR MGMT 16-QFN	296-23839-1-ND	pg24073	Texas Instruments	BQ24073RGTT	1	1.00		
LEON G100	U12			UBLOX	Tyrene		1			
MX25L8005MC-15G_SOP-8L	U13	MX25L8005MC-15G_SOP-8L	SO8-150mil	Tyrene			1			
GT1612	U15			GT1612			1			
8.000 MHZ	Y1	CRYSTAL 8.000 MHZ 18PF SMD	887-1452-2-ND	SMD CRYSTAL 4 x 2.5	TXC CORPORATION	7B-8.000MAAJ-T	1	0.39000		