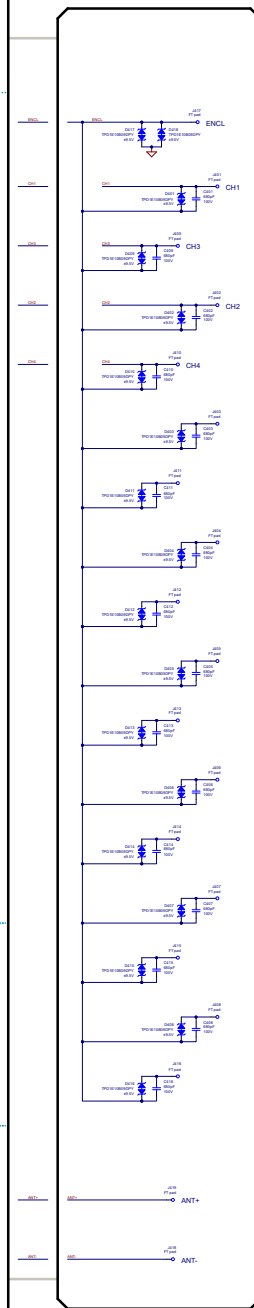
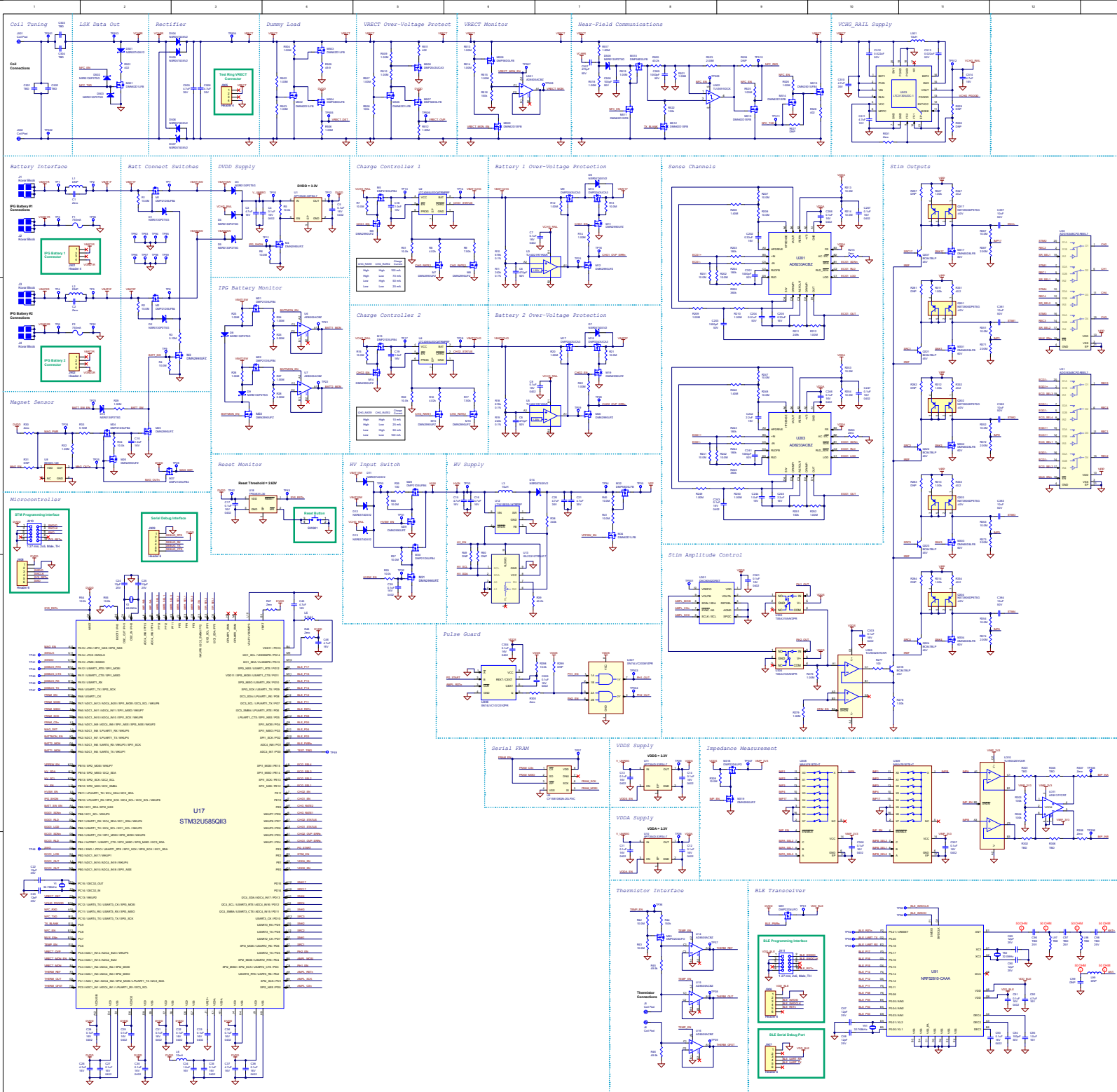
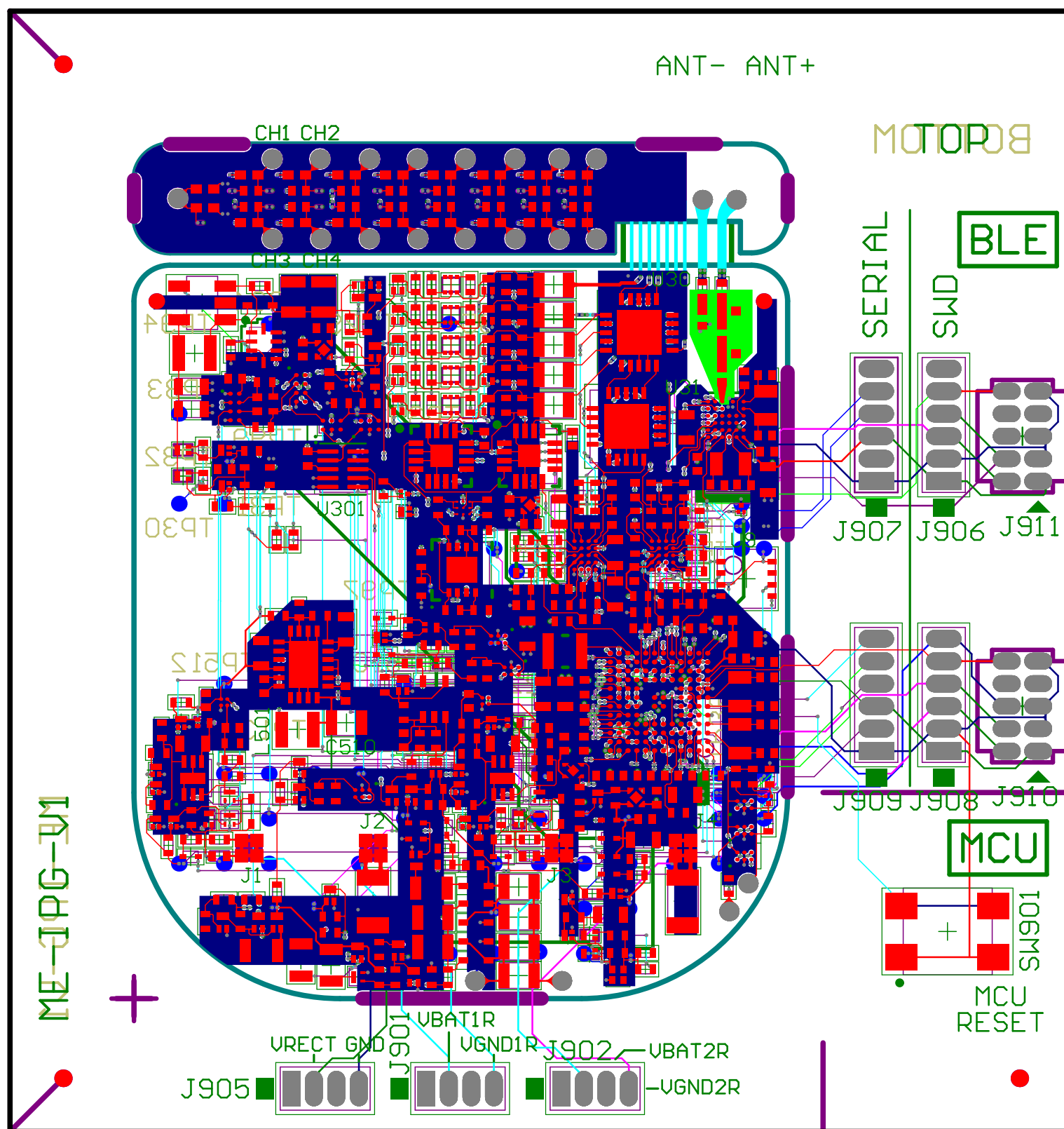


Q-ty	Designator	Description	Manufacturer	Manufacturer PN
7	C1, C2, R47, R48, R307, R308, R531	Resistor, Zero ohms, 40V, 40mW, 1%, 0402, Imp-grd	Panasonic	ERJ-2GE0R00X
10	C3, C15, C16, C26, C37, C45, C46, C92, C511, C514	Capacitor, 4.7uF, X5R, 16V, 10%, 0603, Imp-grd	Murata	GRM188R61C475KE11
33	C4-5, C7, C9, C11-14, C17, C27-33, C35-36, C38-39, C91, C93, C206-207, C243, C246-247, C301, C303-307	Capacitor, 0.1uF, X7R, 16V, 10%, 0402, Imp-grd	Murata	GCM155R71C104KA55
3	C6, C8, C507	Capacitor, 470pF, X7R, 50V, 10%, 0402, Imp-grd	Murata	GCM155R71H471KA37D
6	C10, C18, C19, C34, C95, C244	Capacitor, 1.0uF, X5R, 16V, 10%, 0603, Imp-grd	Murata	GCM188R71C105KA64
5	C20, C21, C505, C506, C510	Capacitor, 4.7uF, X7S, 35V, 10%, 0805, Imp-grd	Murata	GCM218C7Y4A475KE36L
8	C22, C23, C24, C25, C87, C88, C89, C90	Capacitor, 12pF, C0G, 25V, ±0.05pF, 0402, Imp-grd	AVX	C0402C120J3GACAUTO
2	C94, C508	Capacitor, 100pF, C0G, 50V, 5%, 0402, Imp-grd	Murata	GCM1555C1H101JA16D
1	C96	DNP: Capacitor, TBD, 0402	TBD	TBD
1	C97	DNP: Capacitor, TBD, 0402	TBD	TBD
1	C98	DNP: Capacitor, TBD, 0402	TBD	TBD
1	C99	Capacitor, DNP, 0402	N/A	N/A
3	C201, C241, C509	Capacitor, 1000pF, X7R, 50V, 10%, 0402, Imp-grd	Murata	GRM1555C1H102JA01D
2	C202, C205	Capacitor, 0.33uF, X7S, 16V, 10%, 0402	TDK	CGA2B1X7S1C334K050BC
1	C203	Capacitor, 1500pF, X7R, 50V, 10%, 0402	Murata	GCM155R71H152KA37D
1	C204	Capacitor, 0.01uF, X7R, 50V, 10%, 0402, Imp-grd	Murata	GCM155R71H103KA55J
2	C242, C245	Capacitor, 2.2uF, X7R, 16V, 10%, 0603, Imp-grd	Murata	GRM188Z71C225ME43J
5	C381, C382, C383, C384, C397	Capacitor, 10uF, X5R, 50V, 10%, 0805	Murata	GRM218R61H106ME43L
16	C401, C402, C403, C404, C405, C406, C407, C408, C409, C410, C411, C412, C413, C414, C415, C416	Capacitor, 680pF, C0G, 100V, 5%, 0402	TDK	C1005C0G2A681J050BE
3	C501, C502, C504	DNP: Capacitor, TBD, 0805	TBD	TBD
1	C503	Capacitor, TBD, 0805	TBD	TBD
2	C512, C513	Capacitor, 0.022uF, X7R, 50V, 10%, 0402, Imp-grd	Murata	GCM155R71H223KA55
11	D1, D2, D3, D4, D5, D8, D9, D10, D502, D503, D508	Schottky, 30V, 100mA, 385mV, 200mW, SOD-923	ON Semi	NSR0130P2T5G
11	D6, D7, D11, D12, D13, D14, D501, D504, D505, D506, D507	Schottky, 40V, 500mA, 530mV, SOD-523	ON Semi	NSR05140XV2T5G
18	D401-418	TVS Diode, Bidirectional, ±9.5V, 4.5A, 0402	TI	TPD1E10B09DPY
2	F1, F2	Fuse, 750mA, 63V, 1206	Littelfuse	0440_750WR
4	J1, J2, J3, J4	Kovar block, TBD	TBD	TBD
1	J5, J6	Coil TH pad, hole size and ring TBD	N/A	N/A
3	J901, J902, J905	Header, 1.27mm, male, 1x4, thru-hole	Samtec	TMS-104-01-G-S
2	J907, J909	Header, 1.27mm, male, 1x6, thru-hole	Samtec	TMS-106-01-G-S
2	J910, J911	Connector, 1.27 mm, 2x5, Male, TH	Samtec	FTSH-105-01-F-D-K
2	L3, L501	Inductor, 10uH, 600mA, 20%, 1008	Würth	74438323100
1	L5	Inductor, 2.2uH, 1.76A, 1008	TDK	VLS252010HBX-2R2M-1
1	L6	Inductor, Unshielded, 33nH, 350mA, 0402	Murata	LQG15HS33NJ02D
2	L97, L98	Inductor, TBD, 0402	TBD	TBD
1	L99	Inductor, DNP, 0402	N/A	N/A
10	M1, M2, M5, M13, M21, M22, M24, M27, M28, M30	MOSFET, P-chan, -20V, X2-DFN1006-3	Diodes Inc	DMP21D5UF84-7B
18	M3, M4, M6, M7, M8, M11, M12, M14, M15, M16, M19, M20, M23, M25, M26, M29, M31, M319	MOSFET, N-Chan, 20V, DFN0606	Diodes Inc	DMN2990UFZ
5	M9, M10, M17, M18, M506	MOSFET, P-chan, -20V, DFN1010-3	Diodes Inc	DMP2043JUC3A-7
5	M32, M504, M507, M508, M510	MOSFET, P-chan, -50V, DFN1006	Diodes Inc	DMP580DLFB
3	M33, M91, M318	MOSFET, P-chan, -20V, DFN0604	Diodes Inc	DMP22D4UF0
5	M34, M501, M502, M503, M505	MOSFET, N-Chan, 60V, 320mA, DFN1006	Diodes Inc	DMN62D11FB-7B
5	M301, M302, M303, M304, M317	MOSFET, N-Chan, 60V, DFN0606	Diodes Inc	DMN6508LFB-7B
5	M509, M511, M512, M513, M514	MOSFET, N-Chan, 60V, DFN1006	Diodes Inc	DMN62D15FB
1	M515	MOSFET, N-Chan, 20V, DFN1006	Diodes Inc	DMN2501UF84
5	Q301, Q302, Q303, Q304, Q317	TRANS 2PNP 40V 0.2A SOT963	ON Semi	NS13906DP6T5G
6	Q318, Q321, Q322, Q323, Q324, Q337	Transistor, NPN, 45V, 100mA, DFN1006	Diodes Inc	BC847BLP-7B
1	R1	Resistor, 10.0M, 1%, 0402, Imp-grd	Panasonic	ERJ-2GE1J106X
10	R2, R4, R13, R15, R40, R42, R43, R201, R202, R367	Resistor, 10.0M, 1%, 0402, Imp-grd	Panasonic	ERJ-2GE1J106X
2	R3, R33	Resistor, 5.10M, 5%, 0402, Imp-grd	Panasonic	ERJ-2GEJ515X
4	R5, R34, R52, R53	Resistor, 10.0k, 1%, 0402, Imp-grd	Panasonic	ERJ-2RK1F1002X
19	R6, R21, R37, R41, R207-208, R213-214, R241-242, R247-248, R253-254, R309, R351-354	Resistor, 10.0M, 1%, 0402, Imp-grd	Panasonic	ERJ-2GE1J106X
1	R7	Resistor, 10.0M, 40V, 40mW, 1%, 0402, Imp-grd	Panasonic	ERJ-2GE1J106X
2	R8, R16	Resistor, 4.02k, 1%, 0402, Imp-grd	Panasonic	ERJ-2RK4F021X
1	R9	Resistor, 7.50k, 1%, 0402, Imp-grd	Panasonic	ERJ-2RK7F501X
2	R10, R18	Resistor, 619k, 0.1%, 0402	Vishay	MCS0402MD6193BE000
1	R11	Resistor, 243k, 0.1%, 0402	TE Connectivity	RP73PF1E243K8TDF
24	R12, R14, R20, R22-24, R26, R27, R29, R209, R212, R250, R252, R502-504, R507, R509-510, R512, R514-515, R519, R526	Resistor, 1.00M, 1%, 0402, Imp-grd	Panasonic	ERJ-2RK1F1004X
1	R17	Resistor, 7.50k, 1%, 0402, Imp-grd	Panasonic	ERJ-2RK7F501X
1	R19	Resistor, 243k, 0.1%, 0402	TE Connectivity	RP73PF1E243K8TDF
6	R25, R28, R371, R372, R374, R387	Resistor, 2.00M, 1%, 0402, Imp-grd	Panasonic	ERJ-2GEJ205X
3	R30, R255, R300	Resistor, Zero ohms, 1%, 0402, Imp-grd	Panasonic	ERJ-2GE0R00X
13	R31, R49, R50, R281, R282, R283, R284, R297, R299, R524, R527, R529, R530	Resistor, DNP, 0402	N/A	N/A
1	R32	Resistor, 1.00M 1%, 0402, Imp-grd	Panasonic	ERJ-2RK1F1004X
1	R35	Resistor, 100, 1%, 0402, Imp-grd	Panasonic	ERJ-2RK1F1000X
1	R36	Resistor, 10.0M, 1%, 0402, Imp-grd	Panasonic	ERJ-2GE1J106X
1	R38	Resistor, 340k, 1%, 0402, Imp-grd	Panasonic	ERJ-2RK3F3403X
1	R39	Resistor, 40.2k, 1%0402, Imp-grd	Panasonic	ERJ-2RK4F022X
2	R44, R516	Resistor, 150k, 1%, 0402, Imp-grd	Panasonic	ERJ-2RK1F1503X
2	R45, R46	Resistor, 49.9k, 1%, 0402, Imp-grd	Panasonic	ERJ-2RK4F992X
3	R51, R54, R55	Resistor, 10.0k, 40V, 40mW, 1%, 0402, Imp-grd	Panasonic	ERJ-2RK1F1002X
1	R203	Resistor, 180k, 1%, 0402	KOA Speer	RK73H1ETTP1803F
1	R204	Resistor, 180k, 1%, 0402	KOA Speer	RK73H1ETTP1803F
1	R205	Resistor, 360k, 1%, 0402, Imp-grd	Panasonic	ERJ-2RK3F3603X
1	R206	Resistor, 1.40M, 1%, 0402, Imp-grd	Yageo	RC0402FR-071M4L
2	R210, R506	Resistor, 1.00M, 1%, 0402, Imp-grd	Panasonic	ERJ-2RK1F1004X
1	R211	Resistor, 249k, 1%, 0402, Imp-grd	Panasonic	ERJ-2RK2F2493X
1	R215	Resistor, Zero ohms, 1%, 0402, Imp-grd	Panasonic	ERJ-2GE0R00X
1	R243	Resistor, 180k, 1%, 0402	KOA Speer	RK73H1ETTP1803F
1	R244	Resistor, 180k, 1%, 0402	KOA Speer	RK73H1ETTP1803F
1	R245	Resistor, 360k, 1%, 0402, Imp-grd	Panasonic	ERJ-2RK3F3603X
1	R246	Resistor, 1.40M, 40V, 40mW, 1%, 0402, Imp-grd	Yageo	RC0402FR-071M4L
5	R249, R517, R518, R521, R525	Resistor, 1.00M, 1%, 0402, Imp-grd	Panasonic	ERJ-2RK1F1004X
1	R251	Resistor, 100k, 1%, 0402, Imp-grd	Panasonic	ERJ-2RK1F1003X
2	R276, R279	Resistor, 1.00M, 40V, 40mW, 1%, 0402, Imp-grd	Panasonic	ERJ-2RK1F1004X
1	R277	Resistor, 100 ohms, 1%, 50V, 0.1W, 0402	Panasonic	ERJ-2RK1F1000X
6	R278, R311, R312, R313, R314, R327	Resistor, 1.00k, 1%, 50V, 0.1W, 0402	Panasonic	ERJ-2RK1F1001X
1	R298	Resistor, 10.0k, 1%, 0402, Imp-grd	Panasonic	ERJ-2RK1F1002X
4	R301, R302, R305, R306	DNP: Resistor, TBD, 0402	TBD	TBD
2	R303, R304	Resistor, 100k, 40V, 40mW, 1%, 0402, Imp-grd	Panasonic	ERJ-2RK1F1003X
5	R331, R332, R333, R334, R347	Resistor, 40.2 ohms, 50V, 100mW, 1%, 0402	Panasonic	ERJ-2RK4F0R2X
1	R373	Resistor, 2.00M, 1%, 0402, Imp-grd	Panasonic	ERJ-2GEJ205X
1	R501	Resistor, 402 ohms, 1%, 0402, Imp-grd	Panasonic	ERJ-2RK4F020X
1	R505	RES SMD 49.9 OHM 1% 1/8W 0805	Panasonic	ERJ-6EN4F49R9V
2	R508, R522	Resistor, 100k, 1%, 0402, Imp-grd	Panasonic	ERJ-2RK1F1003X
2	R511, R528	Resistor, 402 ohms, 1%, 0402, Imp-grd	Panasonic	ERJ-2RK4F020X
1	R513	Resistor, 1.00M, 1%, 0402, Imp-grd	Panasonic	ERJ-2RK1F1004X
1	R520	Resistor, 40.2k, 1%, 0402, Imp-grd	Panasonic	ERJ-2RK4F022X
1	R523	Resistor, 2.00M, 1%, 0402, Imp-grd	Panasonic	ERJ-2GEJ205X
1	SW901	Pushbutton, NO-MOM, 12V, 0.05A, SMT	C&K	PTS6475N50SMT2R1FS
3	U1, U10, U11	LDO Regulator, 3.3V, Shutdown, DFN1010-4	Diodes Inc	AP7354D-33FS4-7
2	U2, U4	Charge Controller, 4.2V, 250mA, DFN-6	Linear	LTC4065LEDCH#TRMPBF
2	U3, U5	Comparator, 1.2V Reference, Open-drain, BGA-4	TI	TLV4021R1YKAR
6	U6, U7, U14, U15, U16, U501	Op Amp, Rail-to-Rail, 95kHz, WLSCP-6	Analog Devices	AD8505ACBZ
1	U8	Magnet Sensor, 15 Gauss, ULLGA4, Imp-grd	NVE	AD1021-14E
1	U9	FRAM, 8 Mbit (1024k x 8), SPI, 1.8-3.6V, QFN-8	Cypress Semi	CY15B108QN-20LPCX
1	U12	SEPIC 1.23V 1 Output 75mA (Switch) SOT-23-5	Linear	LT1615ESS-1#TRPBF
1	U13	Digital potentiometer, 256 taps, 100k, I2C, QFN-10	Renesas	ISL23315TRU2-T
1	U17	MCU, ARM Cortex-M33, 2 MB, 786 kB RAM, BGA-132	STMicro	STM32U585QI3
1	U18	Reset Monitor, 2.63V, Active low, X2SON	TPS	TPS3831-20
2	U30, U31	IC SWITCH SPDTX4 4.5OHM 20LFCSP	Analog Devices	ADG1634BCPZ-REEL7
1	U91	Bluetooth, v5.0, 192 kB Flash, 24 kB RAM, BGA-33	Nordic	NRF52810-CAAA
2	U201, U203	Analog front end, ECG, RLD amp, BGA-20	Analog Devices	AD8233ACBZ
1	U301	DAC, 16-bit, Dual channel, SPI/I2C, WSON-10	TI	DAC80502DRXT
2	U303, U304	Analog Switch, SPDT, 2:1, DS8GA6	TI	TSSA3159AYZPR
2	U305, U310	Op Amp, Dual, Rail-to-Rail, 1MHz, BGA-9	TI	TLV9002SIYCKR
1	U306	Monostable, RC set, dual triggers, BGA-8	TI	SN74LVC1G123YZPR
1	U307	AND gate, Dual 2-input, BGA-8	TI	SN74LVC2G08YZPR
2	U308, U309	Multiplexer, 8:1, 0.7 ohms, QFN-16	Maxim	MAX4781ETE+T
1	U311	Differential Amplifier, 110 MHz, DFN-8	Analog Devices	AD8137YCPZ
1	U502	Comparator, Push-pull output, SC-70	TI	TLV3691IDCKT
1	U503	Buck-Boost Converter, Selectable Voltage, QFN-20	Analog Devices	LTC3130IUDC-1#PBF
2	Y1, Y91	Crystal, 32.768kHz, 6.0pF, 70k, CC&V, Imp-grd	Micro Crvstal	CM8V-11A-32.768KHZ-6PF
1	Y92	Imp-grd Crystal 32 MHz 10pF 100 Ohms 4-SMD	ECS	ECS-320-10-48-CKY-TR
1	Y2	Crystal, 48 MHz Crystal 10pF 100 Ohms 4-SMD	ECS	ECS-480-10-48-CKY-TR





ME-IPG-V1

5105

CH1 CH2

CH3 CH4

ANT- ANT+

TOP

BLE

SERIAL

SWD

J907 J906 J911

J909 J908 J910

MCU RESET

J905
VREFCT GND
106J
VBAT1R
GND1R J903
-VBAT2R
-UGND2R

L501
C510

U301

U30

U31

U9

STM32U
5850IIE
AA221 9R
TUN 210 X
FD 62 17

ADG
1634B
#2217
72554

ADG
1634B
#2217
72554

303
554

A23885

10 0 8

J1

J2

J3

J4

