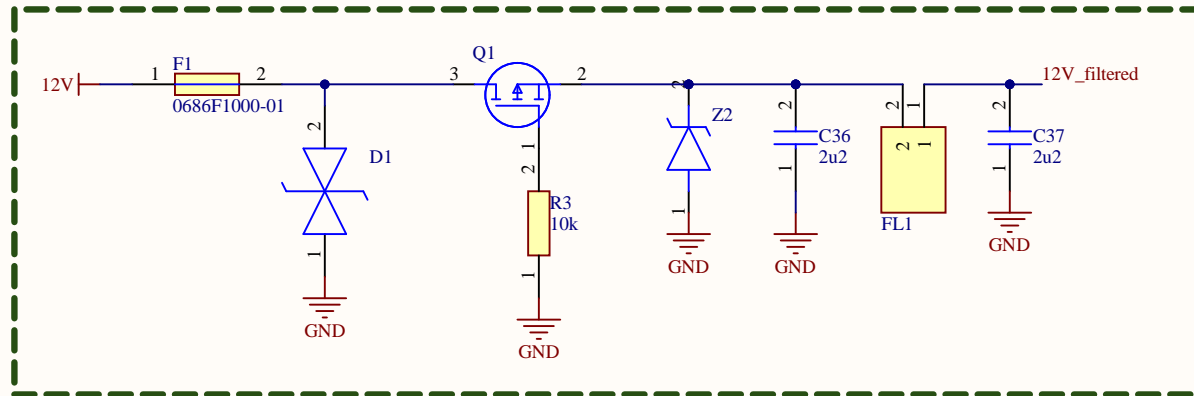
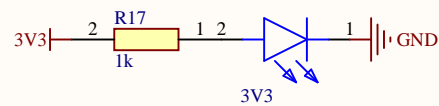
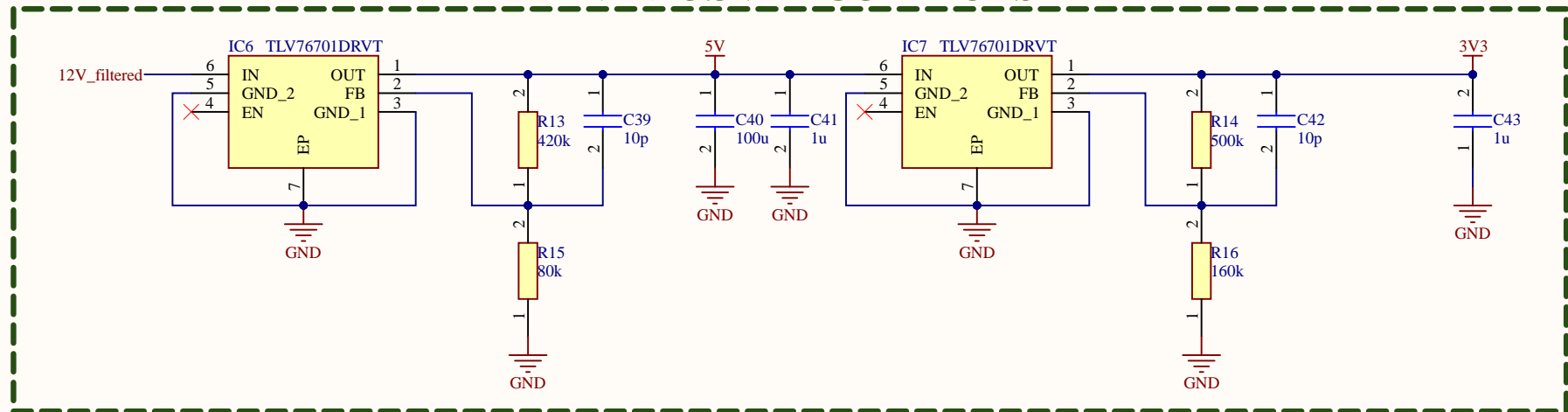


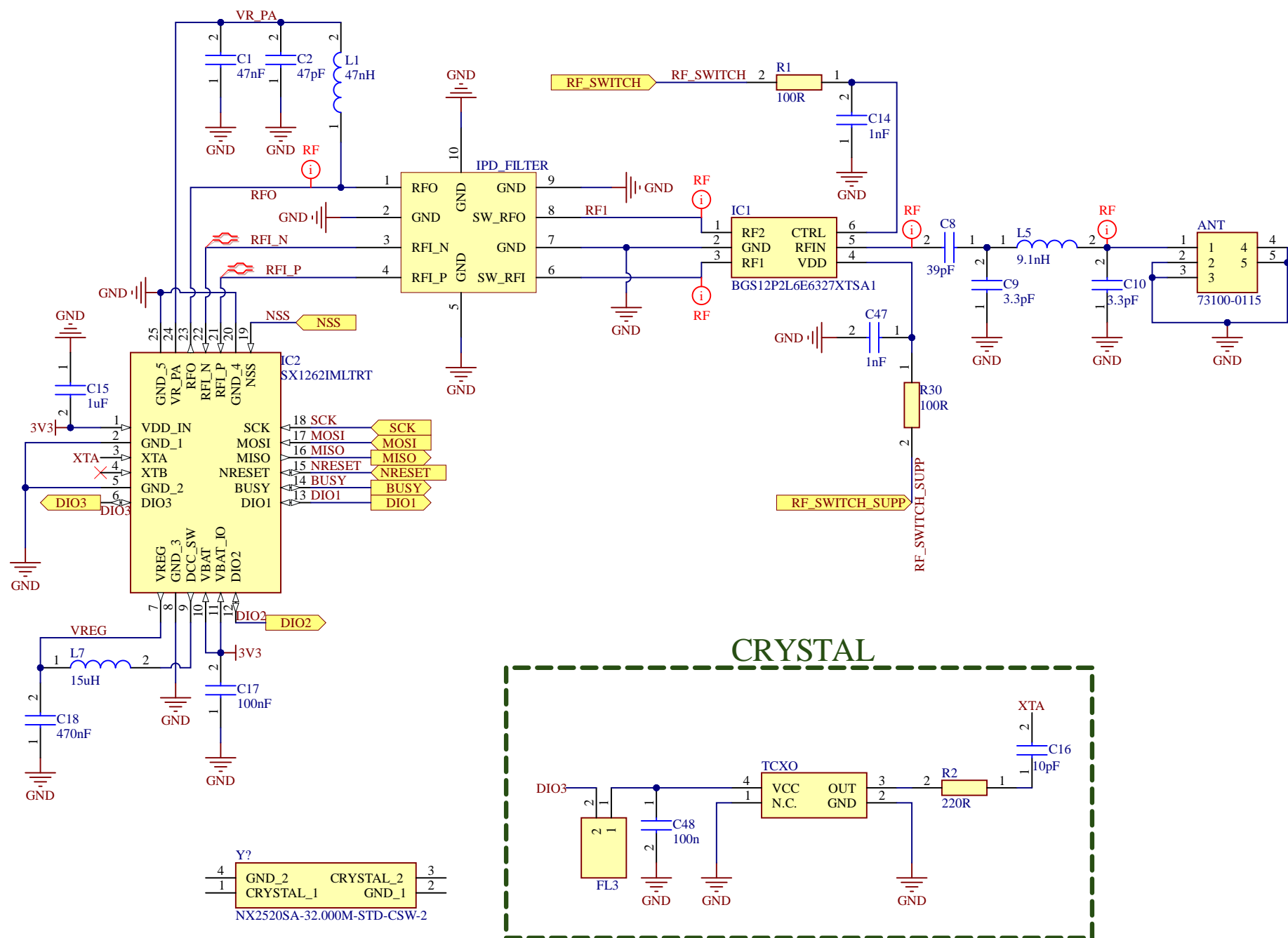
12V FILTERS



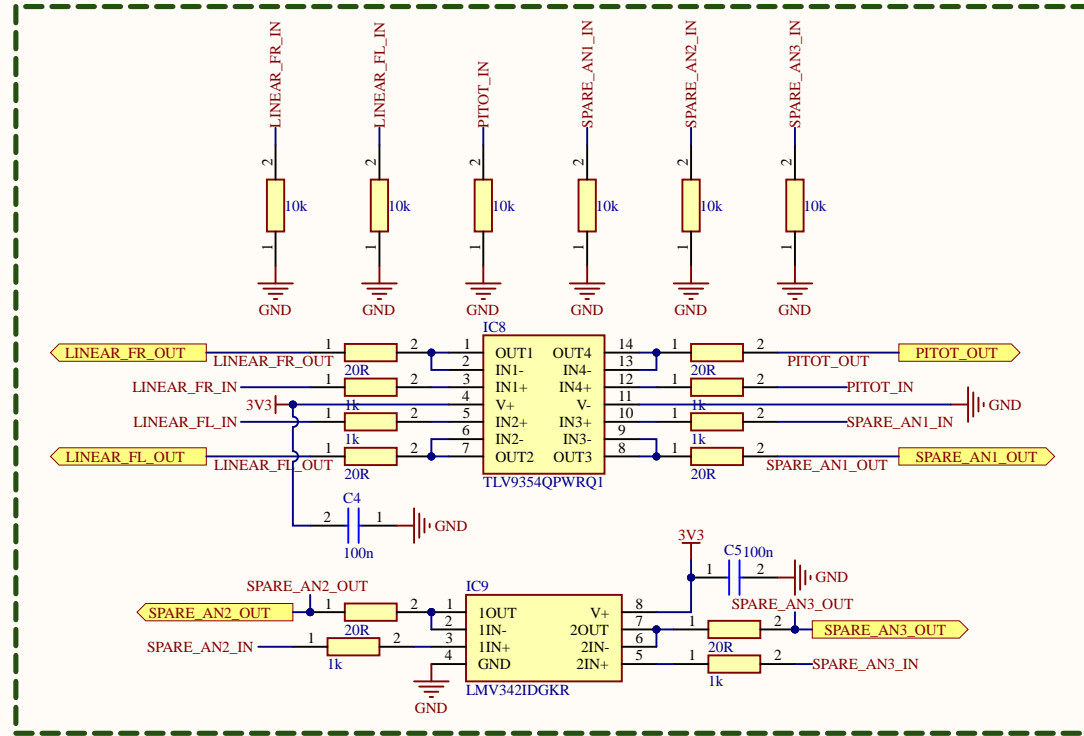
12V --> 3.3V REGULATORS



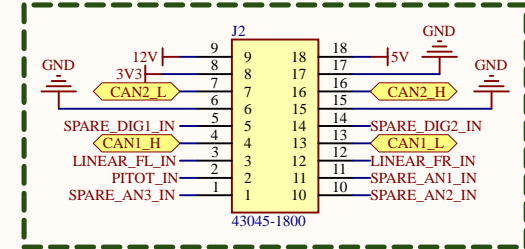
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A		
Date:	11-03-2023	Sheet of
File:	C:\Users\...\Power_Supply.SchDoc	Drawn By:



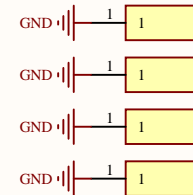
ANALOG SIGNALS



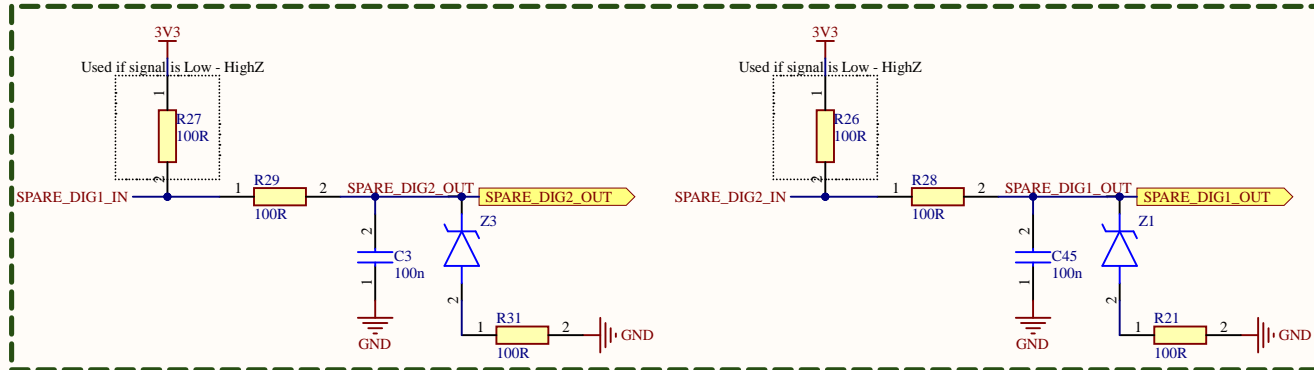
CONNECTOR



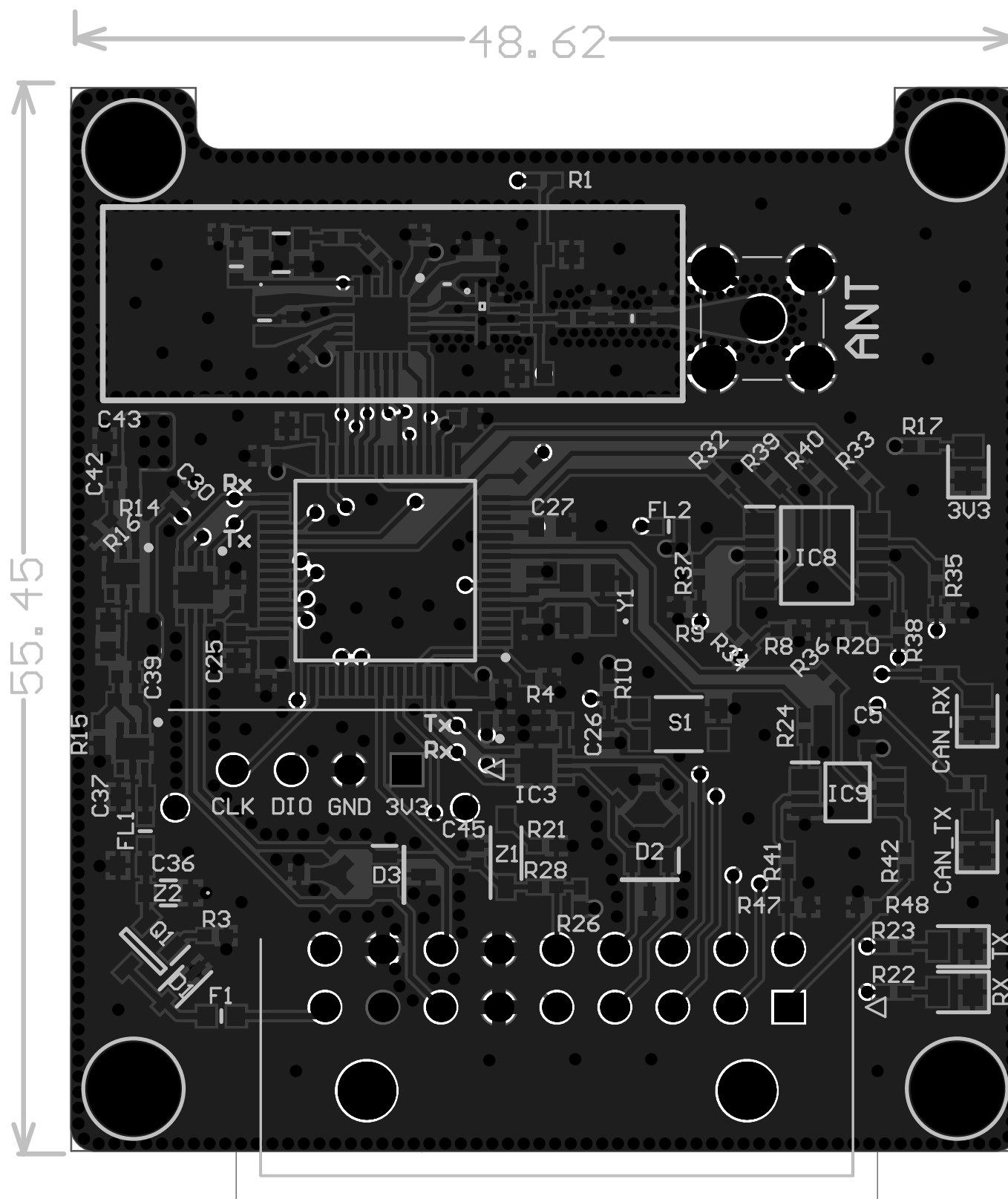
M3 SCREWS



SPARE DIGITAL SIGNALS



Title		
Size	Number	Revision
A		
Date:	11-03-2023	Sheet of
File:	C:\Users\...\Buffers&Connectors.SchDoc	Drawn By:



Comment	Description	Designator	Footprint	LibRef	Quantity
Clown_USB_Port			CLOWN_USB_PORT	Clown_USB_Port	1
LTST-C170KRKT	LED	3V3, CAN_RX, CAN_TX, RX, TX	LEDC2012X120N	LTST-C170KRKT	5
73100-0115	SMA Connector	ANT	731000115	73100-0115	1
47nF	0402 Capacitor	C1	CAPC1005X55N	GRM155R61A224KE19 D	1
47pF	0402 Capacitor	C2	CAPC1005X55N	GRM155R61A224KE19 D	1
100n	0402 Capacitor	C3, C4, C5, C23, C26, C30, C33, C34, C35, C44, C45, C48	CAPC1005X55N	06035C101K4T2A	12
39pF	0402 Capacitor	C8	CAPC1005X55N	GRM155R61A224KE19 D	1
3.3pF	0402 Capacitor	C9, C10	CAPC1005X55N	GRM155R61A224KE19 D	2
1nF	0603 Capacitor	C14, C47	CAPC1608X90N	GRM155R61A224KE19 D	2
1uF	0402 Capacitor	C15	CAPC1005X55N	06035C101K4T2A	1
10pF	0402 Capacitor	C16	CAPC1005X55N	GRM155R61A224KE19 D	1
100nF	0402 Capacitor	C17	CAPC1005X55N	GRM155R61A224KE19 D	1
470nF	0402 Capacitor	C18	CAPC1005X55N	GRM155R61A224KE19 D	1
12p	0402 Capacitor	C19, C22	CAPC1005X55N	06035C101K4T2A	2
4.7n	0402 Capacitor	C20, C28	CAPC1005X55N	06035C101K4T2A	2
2u2	0603 Capacitor	C25, C32, C36, C37	CAPC1608X90N	06035C101K4T2A	4
1u	0603 Capacitor	C27, C41, C43	CAPC1608X90N	06035C101K4T2A	3
10p	0402 Capacitor	C39, C42	CAPC1005X55N	06035C101K4T2A	2
100u	0603 Capacitor	C40	CAPC1608X90N	06035C101K4T2A	1
PESD15VL1BA,115	Diode ESD (Bi-directional)	D1	SOD2512X110N	PESD15VL1BA,115	1
CDSOT23-T24CAN	TVS Diode (Bi-directional)	D2, D3	SOT95P230X117-3N	CDSOT23-T24CAN	2
SR05-02CTG	Diode	D4	SR0502CTG	SR05-02CTG	1
0686F1000-01	1A Fuse	F1	FUSC1608X60N	0686F1000-01	1
BLM18PG181SN1D	Filter	FL1, FL2, FL3	BLM18AG102BH1D	BLM18PG181SN1D	3
4828515	Hardware	H1, H2, H3, H4	4828515	4828515	4
BGS12P2L6E6327XTSA 1	Integrated Circuit	IC1	BGS12P2L6E6327XTSA 1	BGS12P2L6E6327XTSA 1	1
SX1262IMLTRT	Integrated Circuit	IC2	OFN50P400X400X100- 25N-D	SX1262IMLTRT	1
MCP2557FDT-H_MNMY	Integrated Circuit	IC3, IC5	SON50P300X200X80- 9N-D	MCP2557FDT-H_MNMY	2
STM32F415RG6TR	Integrated Circuit	IC4	GFP50P1200X1200X16 0-64N	STM32F415RG6TR	1
TLV76701DRV1	Integrated Circuit	IC6, IC7	SON65P200X200X80- 7N	TLV76701DRV1	2
TLV9354QPWRO1	Analog Buffer	IC8	SOP65P640X120-14N	TLV9354QPWRO1	1
LMV342IDGKR	Integrated Circuit	IC9	SOP65P490X110-8N	LMV342IDGKR	1
IPD_FILTER	IPD_FILTER	IPD_FILTER	IPD_FILTER	IPD_FILTER	1
43650-0417	Serial Wire Connector	J1	43650-04YY_151617	43650-0417	1
43045-1800	Connector	J2	43045-18(00,01,02,10)	43045-1800	1
47nH	0402 Inductor	L1	INDC1005X37N	ATFC-0402-0N2-B-T	1
9.1nH	0402 Inductor	L5	INDC1005X37N	ATFC-0402-0N2-B-T	1
15uH	0603 Inductor	L7	INDC1608X55N	ATFC-0603-22N-FT	1
RRR030P03HZG	MOSFET (P-Channel)	Q1	SOT95P280X90-3N	RRR030P03HZG	1
100R	0402 Resistor	R1, R21, R26, R27, R28, R29, R30, R31	RESC1005X35N	CPF0402B107KE1, CR0603-J_-1R0ELF	8
220R	0402 Resistor	R2	RESC1005X35N	CPF0402B107KE1	1
10k	0402 Resistor	R3, R8, R9, R19, R20, R47, R48	RESC1005X35N	CR0603-J_-1R0ELF	7
100k	0402 Resistor	R4, R10	RESC1005X35N	CR0603-J_-1R0ELF	2
0R	0402 Resistor	R5, R11	RESC1005X35N	CR0603-J_-1R0ELF	2
60R	0402 Resistor	R6, R7, R12, R18	RESC1005X35N	CR0603-J_-1R0ELF	4
420k	0402 Resistor	R13	RESC1005X35N	CR0603-J_-1R0ELF	1
500k	0402 Resistor	R14	RESC1005X35N	CR0603-J_-1R0ELF	1
80k	0402 Resistor	R15	RESC1005X35N	CR0603-J_-1R0ELF	1
160k	0402 Resistor	R16	RESC1005X35N	CR0603-J_-1R0ELF	1
1k	0402 Resistor	R17, R22, R23, R25, R34, R35, R37, R38, R41, R42, R43	RESC1005X35N	CR0603-J_-1R0ELF	11
20R	0402 Resistor	R24, R32, R33, R36, R39, R40	RESC1005X35N	CR0603-J_-1R0ELF	6
100k	0402 Resistor	R44	RESC1608X55N	CR0603-J_-1R0ELF	1
22R	0402 Resistor	R45, R46	RESC1608X55N	CR0603-J_-1R0ELF	2
KMR231NGLFS	Switch	S1	KMR231NGLFS	KMR231NGLFS	1
TG2520SMN_32.0000 M-ECGNNM0	32MHz TCXO	TCXO	TG2520SMN160000M MCGNNM3	TG2520SMN_32.0000 M-ECGNNM0	1
ABM8AIG-8.000MHZ- 1Z-T	Crystal or Oscillator	Y1	ABM8AIG8000MHZ1Z T	ABM8AIG-8.000MHZ- 1Z-T	1
NX2520SA-32.000M- STD-CSW-2	Crystal or Oscillator	Y7	NX2520SA32000MSTD CSW2	NX2520SA-32.000M- STD-CSW-2	1
SZMMS15T1G	Zener Diode	Z1, Z3	SOD3716X135N	SZMMS15T1G	2
PLZ13B-G3_H	Zener Diode	Z2	PLZ13BG3H	PLZ13B-G3_H	1