





Title		
Size A4	Number	Revision
Date:	2017-03-18	Sheet of
File:	E:\AUVicOwncloud\...\Weight_dropper	16 of 50 Doc

Comment	Description	Designator	Footprint	LibRef	Quantity
1μF	Capacitor, Ceramic, 25V, +/- 10%, 0603 SMD, X5R	C1, C9, C13	CAPC1608N(0603")	1uF 25V 0603 SMD, Ceramic	3
10μF	Capacitor, Ceramic, 50V, +/- 10%, 1206 SMD, X5R	C2	CAPC3216N(1206")	10uF 50V 1206 SMD, Ceramic	1
0.1uF, 50V, 10%, X7R, 1608	CAP CER 0.1UF 50V 10% X7R 1608 (0603)	C3	CAPC1608N(0603")	0.1uF, 50V, 10%, X7R, 1608	1
0.1μF	Capacitor, Ceramic, 100V, +/- 10%, 0603 SMD, X7R	C4, C5, C6, C7, C8, C12, C14, C15, C16, C17	CAPC1608N(0603")	0.1uF 100V 0603 SMD, Ceramic	10
30pF	Capacitor, Ceramic, 50V, +/-1%, 0603 SMD, C0G	C10, C11	CAPC1608N(0603")	30pF 50V 0603 SMD, Ceramic	2
Header Male 1x6	1x6, Pads Pitch: 0.1" (2.54mm), Through hole	CN1, CN2	Header, Male, 1X6	Header, Male, 1x6	2
Header Male 1x3	1x3, Pads Pitch: 0.1" (2.54mm), Through hole	CN3	Header, Male, 1x3, Pitch: 0.1" (2.54mm),THT	Header, Male, 1x3	1
ZENER MM3Z3V0ST1G	DIODE ZENER 11V 200MW ±5% SOD323	D1	SC-90	ZENER MM3Z3V0ST1G	1
Red	LED, 0805 (2012), Green, Clear	D2	LED0805	LED, 0805 (2012), Green, Clear	1
RB751S40,115	Diode, Schottky, 40V, 120mA	D3, D4, D5, D6	SC-79	RB751S40,115	4
2x1 Term Block		J1, J2, J3, J4	2X1 Terminal Blocks	2x1 Terminal Block	4
MOSFET N-Channel, 40V, 100A, 272W	MOSFET N-Channel, 40V, 100A, 272W, Enh-Mode	Q1, Q2	LFPAK-PowerSO8	MOSFET N-Channel, 40V, 100A, 272W	2
10k	10kR, 1%, 1/10W, 0603 SMD	R1, R2, R3, R9	RESC1608N(0603")	10kR, 1%, 1/10W, 0603 SMD	4
100k	100kR, 1%, 1/10W, 0603 SMD	R4, R6, R10	RESC1608N(0603")	100kR, 1%, 1/10W, 0603 SMD	3
91k	91kR, 1%, 1/10W, 0603 SMD	R5	RESC1608N(0603")	91kR, 1%, 1/10W, 0603 SMD	1
OR	OR, 1%, 1/8W, 0805 SMD	R7, R8	RESC2012N(0805")	OR, 1%, 1/8W, 0805 SMD	2
OR01	OR001, 1%, 3W, 2512 SMD	R11	RESC6332N(2512")	OR01, 1%, 3W, 2512 SMD	1
3.32k	3.32k, 1%, 1/10W, 0603, SMD	R12, R13	RESC1608N(0603")	3.32k, 1%, 1/10W, 0603, SMD	2
715R	715R, 1%, 1/10W, 0603, SMD	R28	RESC1608N(0603")	715R, 1%, 1/10W, 0603, SMD	1
Solder Bridge		SB1	Solder Bridge	Solder Bridge	1
SPST		SW1	4-SPST-NO	4 pin Tacitle Switch	1
Gate Driver		U1, U2	SOC 8	Gate Driver TTL Logic 3 - 30V	2
Op amp 2.5-9V	MIC920YC5-TR	U3, U4	SOT23-5	Op amp 2.5-9V	2
Full duplex Intersil UART - RS485		U5	SOIC-SN8_M	Full duplex Intersil UART - RS485	1
3.3V Lin Reg 30Vin		U6	TO-252	3.3V TO-252 Linear Regulator	1
STM32F091CCT6	LQFP48 Chip	U7	STM-48LQFP	STM32F091CCT6	1
Temperature Sensor		U8	SOIC-8	LM75B (Temperature Sensor)	1
INA168, Current Sensor, High-Side, Analog	INA168, Current Sensor, High-Side, Analog	U9	SOT23-5	INA168, Current Sensor, High-Side, Analog	1
4MHz	4Mhz 150ESR 20pF -20°	X1	HC49/US	Oscillator 4MHz	1