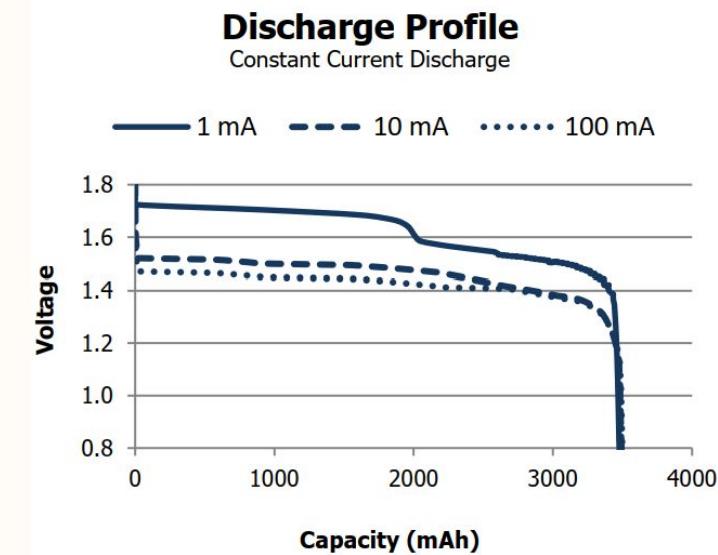


La siguiente tabla permite predecir la duración de la batería si se conoce el consumo medio. Representa el peor de los casos, que se da a -30°C. Los picos de consumo que se tienen en este proyecto no son significativos para reducir el consumo. Para informe completo buscar archivo: duracion de bateria.xlsx

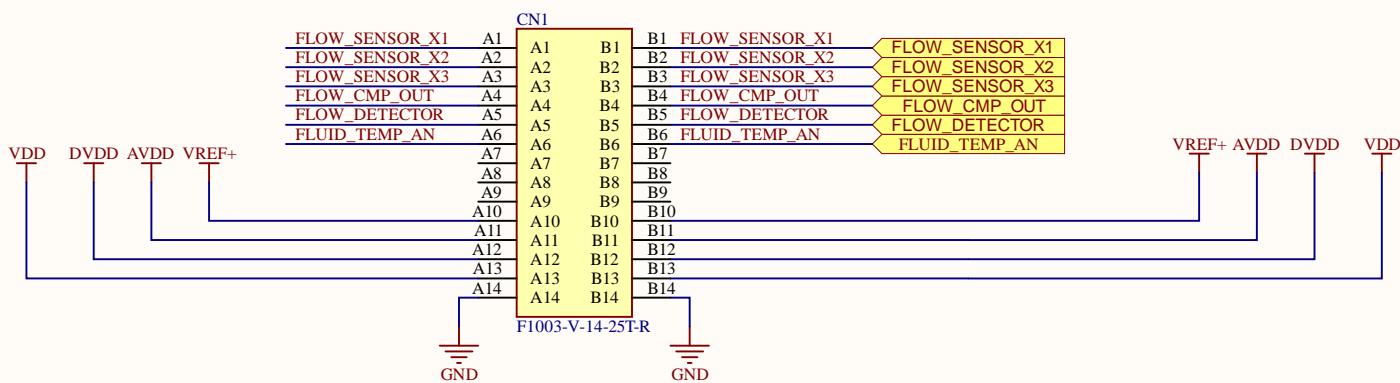
Consumo [uA]	Vida [Horas]	Vida [Días]	Vida [Años]
150	18072	753	2,1
140	19231	801	2,2
130	20548	856	2,3
120	22059	919	2,5
110	23810	992	2,7
100	25862	1078	3,0
90	28302	1179	3,2
80	31250	1302	3,6
70	34884	1453	4,0
60	39474	1645	4,5
50	45455	1894	5,2
40	53571	2232	6,1
30	65217	2717	7,4
20	83333	3472	9,5

Captura de Hoja de datos Energizer L91

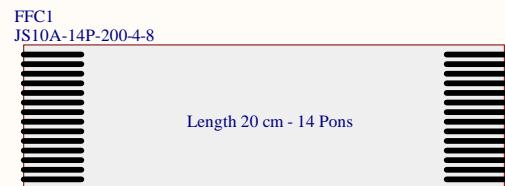


Consumo medio y performance:
 consumo >150uA -> No es aceptable.
 consumo < 100uA -> Regular.
 consumo < 50uA -> Bueno.
 consumo < 20uA -> Excelente.

A



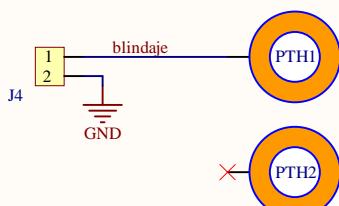
B

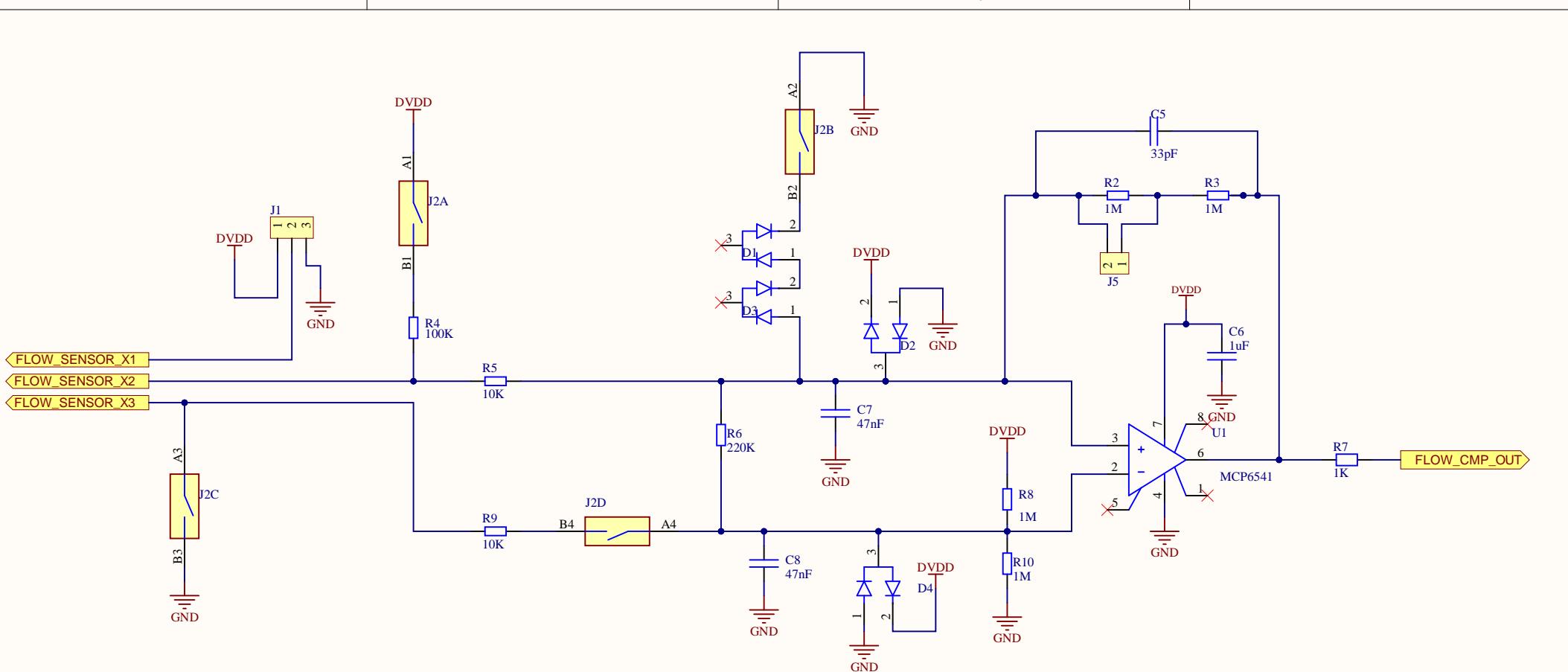


C

Se deja la posibilidad de conectar el gabinete a masa por medio de unos de los agujeros de fijacion. Esto podria ofrecer blindaje en algunos casos. Hacer pruebas de medicion de ruido con y sin el jumper.

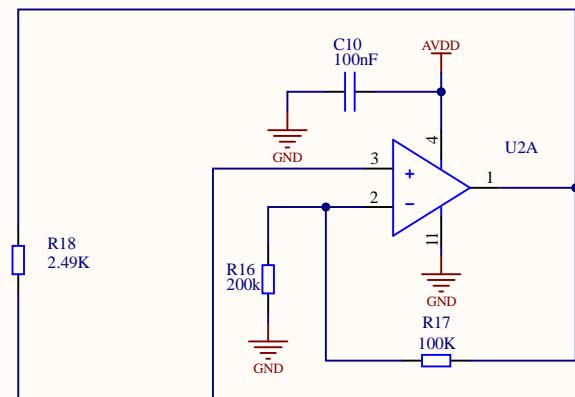
D





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A

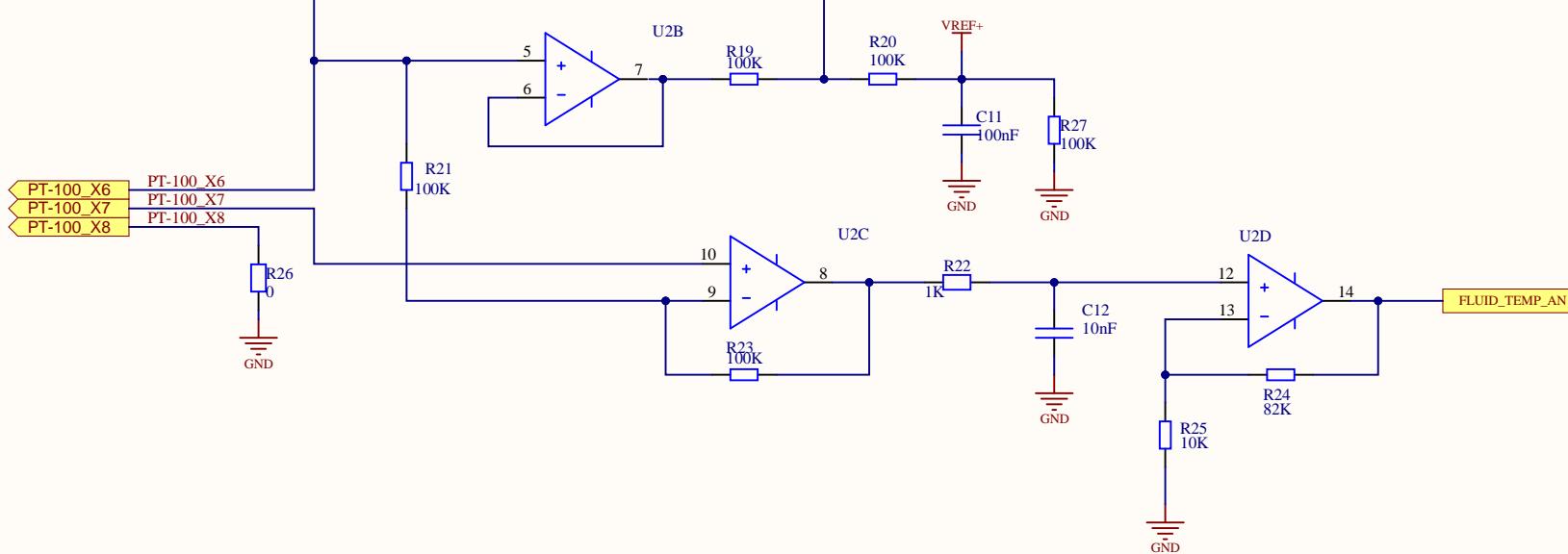


$I_{REF} = V_{REF} / R_{REF}$
 $V_{RTD} = (V_{REF} / R_{REF}) * RTD * (1 + RA / RB)$
 $N = (V_{RTD} / V_{REF}) * 4096$
 $N = (RTD / R_{REF}) * 9.2 * 4096$
6.1 CUENTAS / °C

PT-100
-40°C -> 84.27 ohms -> 0.778 V
0°C -> 100.00 ohms -> 0.924104 V
450°C -> 264.11 ohms -> 2.44 V

El circuito alimenta a la entrada de un ADC, tambien a la entrada de un operacion, con ganancia x 2 logro tener mas de 10 cuentas con temperatura maxima de 80°C, en este rango leo temperatura con 1 decimal.

B

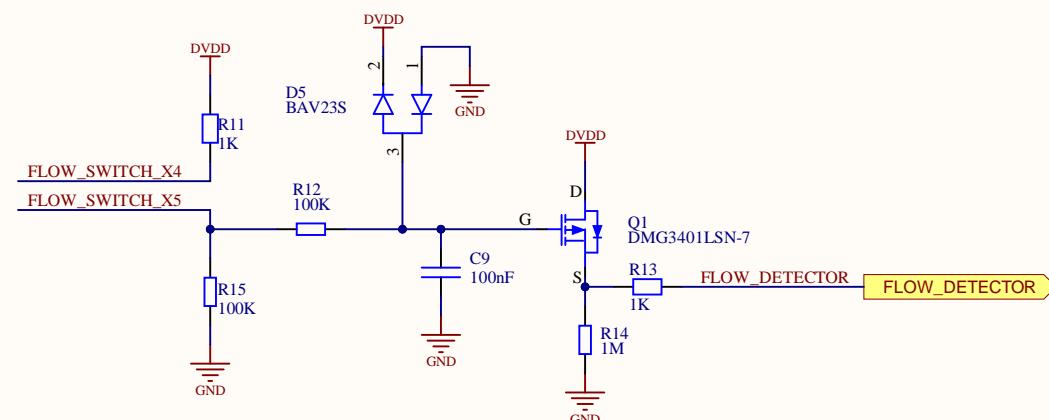
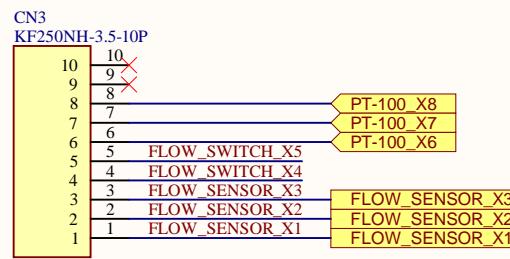


Title

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A4		
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File: D:\FLOWMEET Dropbox\Fluid_RTD		ID: SketchBy:

C

D

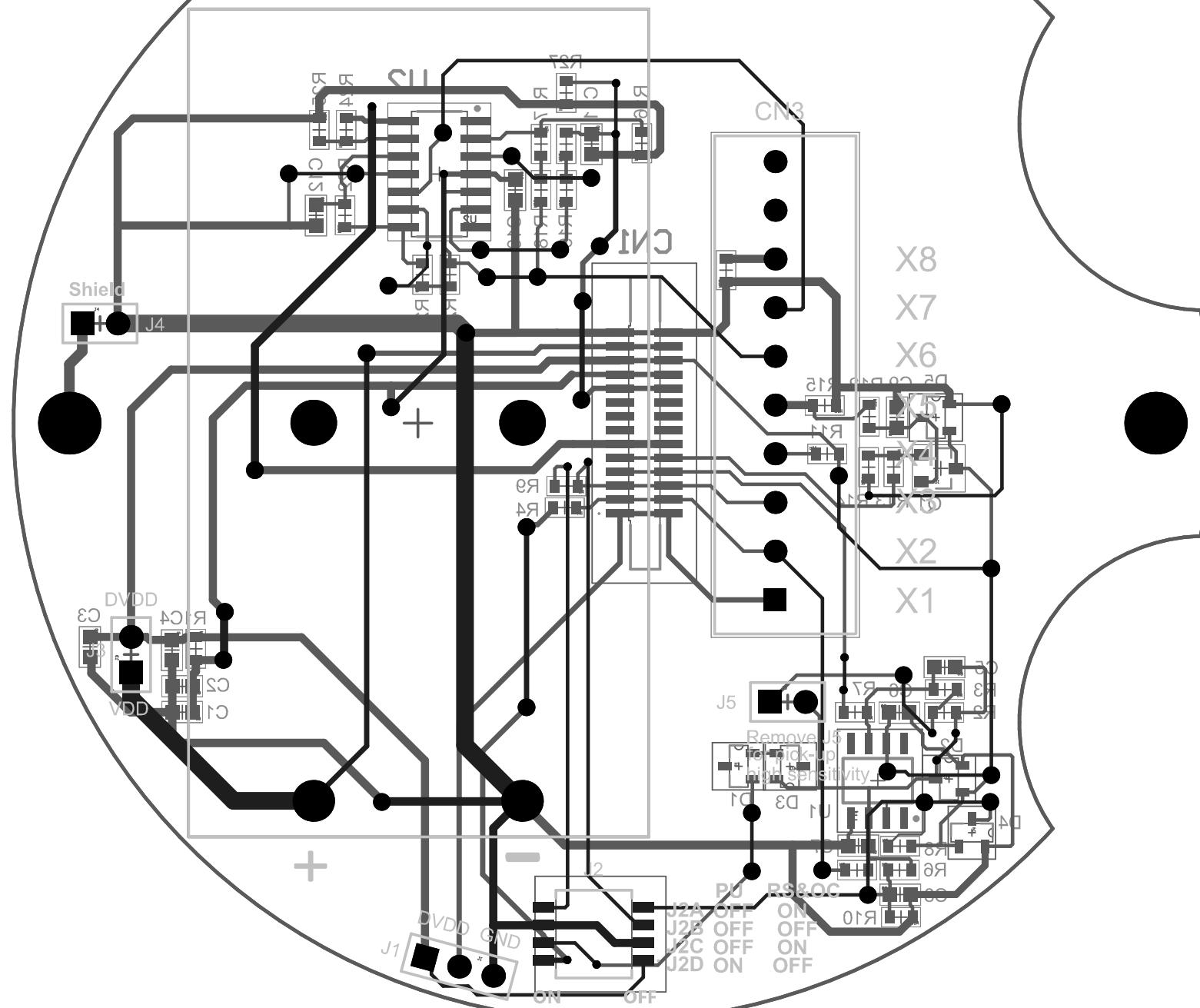




FM-320U-B3 V1R1R1

LOTE 2601163

BH1



Line #	Designator	Quantity	Manufacturer	Manufacturer Part Number	Vendor	Vendor Part Number	Price	POBA
	BH1	1	Keystone	2462				
	C1, C3, C6	3	Yageo	000603KRX7R6BB105				
	C2, C4, C9, C10, C11	5	Yageo	000603KRX7R9BB104				
	C5	1	Yageo	000603JRNPO9BN330				
	C7, C8	2	Yageo	000603JRX7R7BB473				
	C12	1	Yageo	000603KRX7R9BB103				
	ON1	1	XFCN	F1003-V-14-25T-R	LCSC	C2764805		
	ON3	1	cixi_kefa_elec	KF250NH-3.5-10P	LCSC	C976564	1.22	
	D1, D2, D3, D4, D5	5	onsemi	BAV23S				
	FFC1	1	JXTOCONN	JS10A-14P-200-4-8	LCSC	C2857589		Off-board cable/wire – no PCB footprint. Please source and include in POBA assembly
	J1	1	Amphenol ICC	54101-T0600LF				
	J2	1	Kangshen	DSHP04TSGER	LCSC	C3293144		
	J3, J4, J5	3	Amphenol ICC	54101-T0600LF				
	Q1	1	Diodes Incorporated	DMG3401LSN-7				
	R1	1	Yageo	R00603FR-0710RL				
	R2, R3, R8, R10, R14	5	Yageo	R00603FR-071ML				
	R4, R12, R15, R17, R19, R20, R21, R23, R27	9	Yageo	R00603FR-13100KL				
	R5, R9, R25	3	Yageo	R00603FR-0710KL				
	R6	1	Yageo	R00603FR-07220KL				
	R7, R11, R13, R22	4	Yageo	R00603FR-071KL				
	R16	1	Yageo	R00603FR-07200KL				
	R18	1	Yageo	R00603FR-072K49L				
	R24	1	Yageo	R00603FR-0782KL				
	R26	1	Yageo	R00603FR-070RL				
	U1	1	Microchip Tech	MCP6541-E/SN				
	U2	1	Gainsil	GS8044-SR	LCSC			