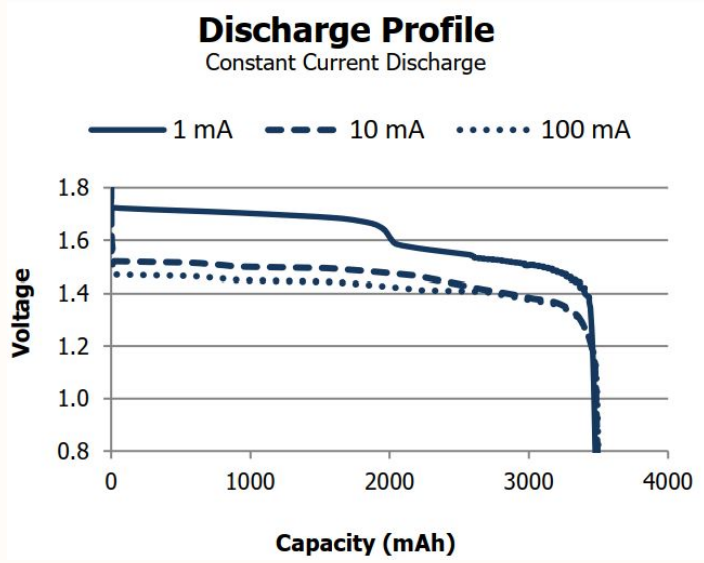


La siguiente tabla permite predecir la duracion de la bateria si se conoce el consumo medio. Representa el peor de los casos, que se da a -30°C. Los picos de consumo que se tienen en este proyecto no son significativos para reducir el consumo. Para informe completo buscar archivo: duracion de bateria.xlsx

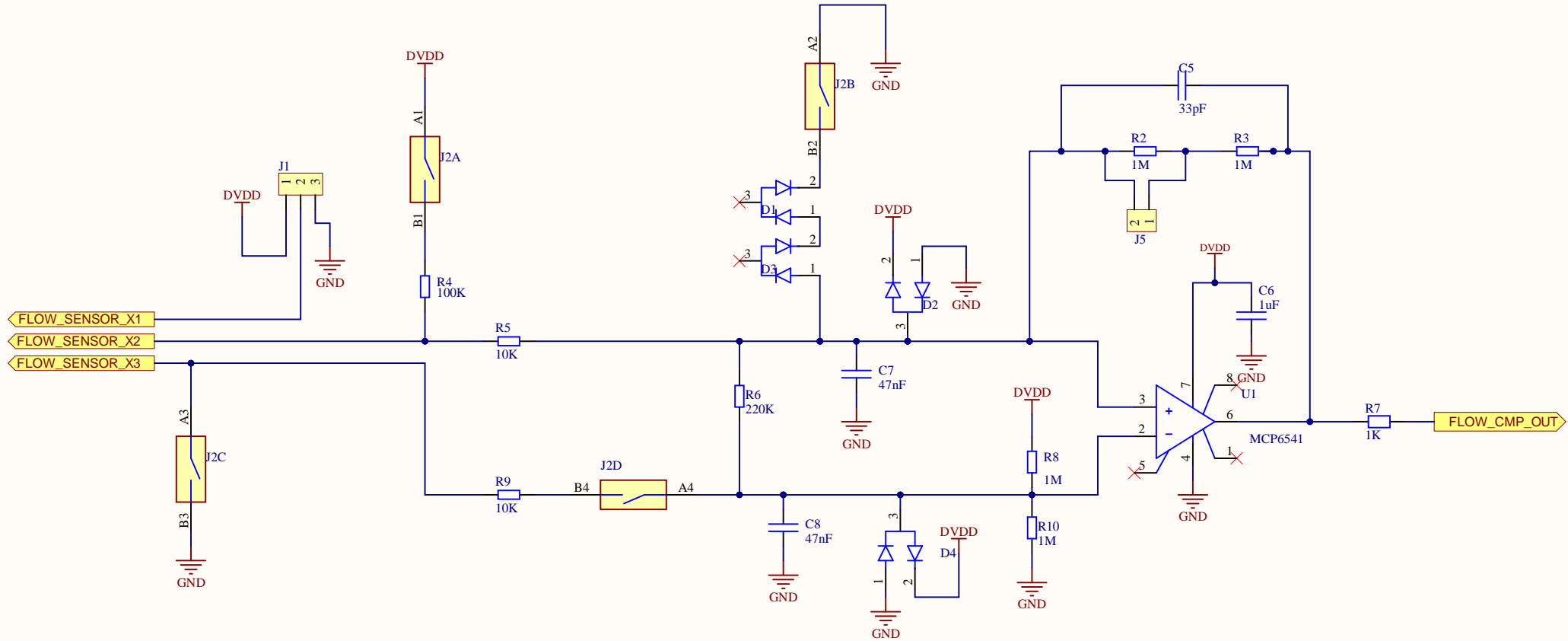
Consumo [uA]	Vida [Horas]	Vida [Dias]	Vida [Años]
150	18072	753	2,1
140	19231	801	2,2
130	20548	856	2,3
120	22059	919	2,5
110	23810	992	2,7
100	25862	1078	3,0
90	28302	1179	3,2
80	31250	1302	3,6
70	34884	1453	4,0
60	39474	1645	4,5
50	45455	1894	5,2
40	53571	2232	6,1
30	65217	2717	7,4
20	83333	3472	9,5

Captura de Hoja de datos Energizer L91

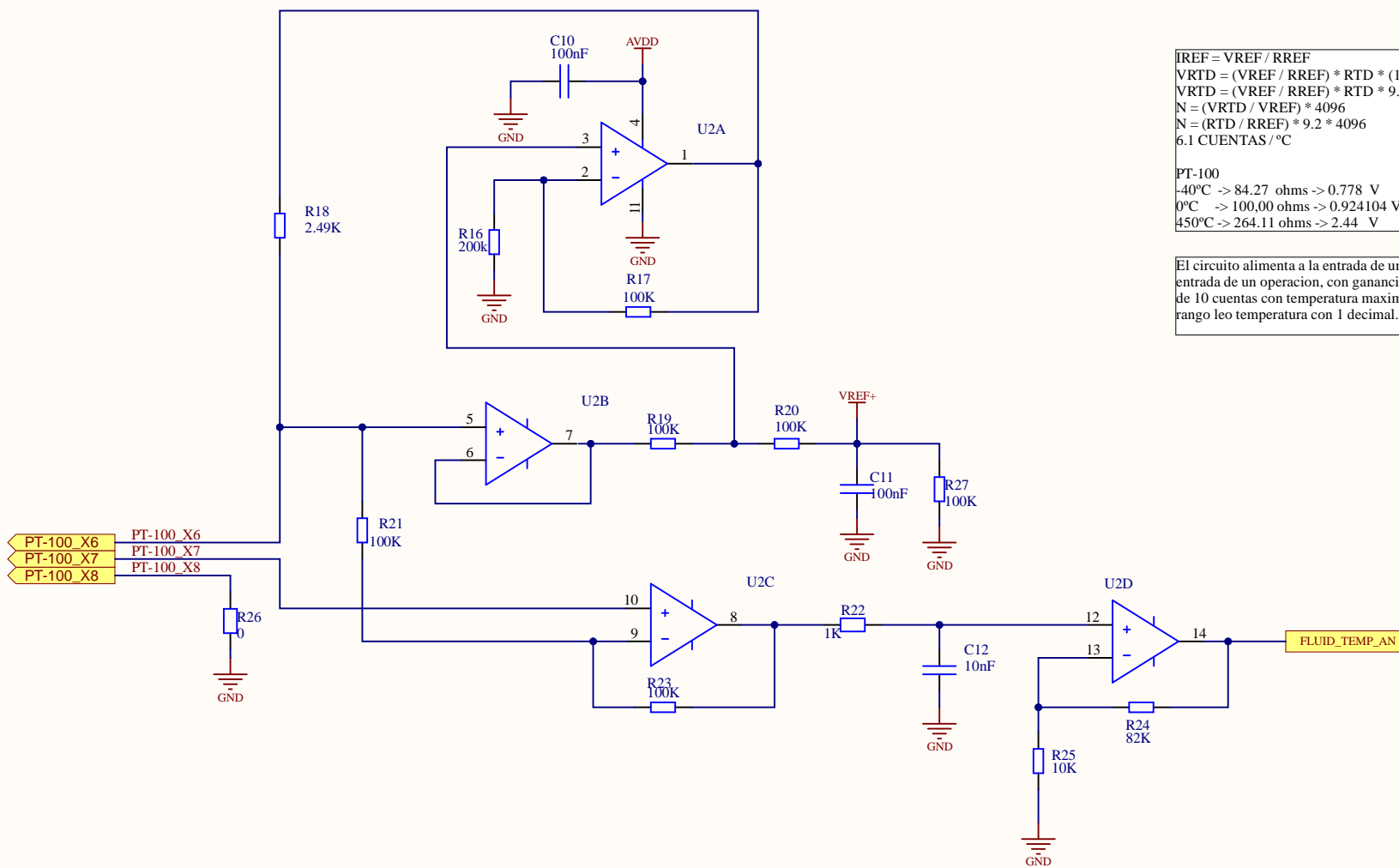


Consumo medio y performace:  
 consumo >150uA -> No es aceptable.  
 consumo < 100uA -> Regular.  
 consumo < 50uA -> Bueno.  
 consumo < 20uA -> Excelente.





Title		
Size A4	Number	Revision
Date:	2/03/2026	Sheet of
File:	D:\FLOWMEET Dropbox\...\Fluid_Flow	Dr. Sch. Dc.



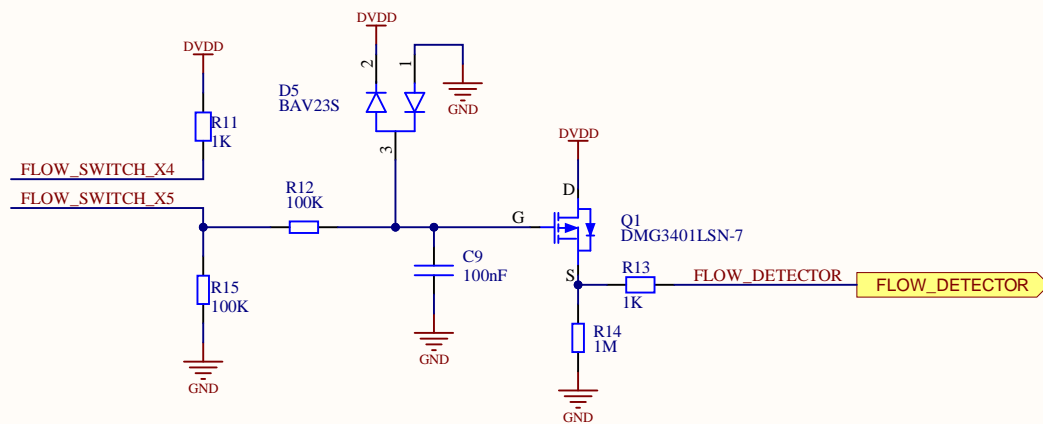
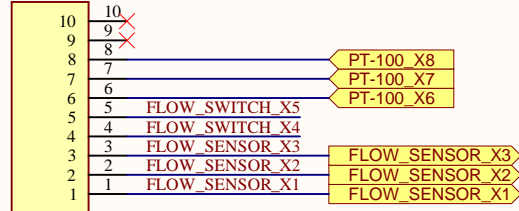
$$\begin{aligned} I_{REF} &= V_{REF} / R_{REF} \\ V_{RTD} &= (V_{REF} / R_{REF}) * R_{TD} * (1 + R_A / R_B) \\ V_{RTD} &= (V_{REF} / R_{REF}) * R_{TD} * 9.2 \\ N &= (V_{RTD} / V_{REF}) * 4096 \\ N &= (R_{TD} / R_{REF}) * 9.2 * 4096 \\ &= 6.1 \text{ CUENTAS} / ^\circ\text{C} \end{aligned}$$

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.

Title		
Size	Number	Revision
A4		
Date:	2/03/2026	Sheet of
File:	D:\FLOWMEET Dropbox\...\Fluid_RTD	Dr. Sol. By:

CN3  
KF250NH-3.5-10P

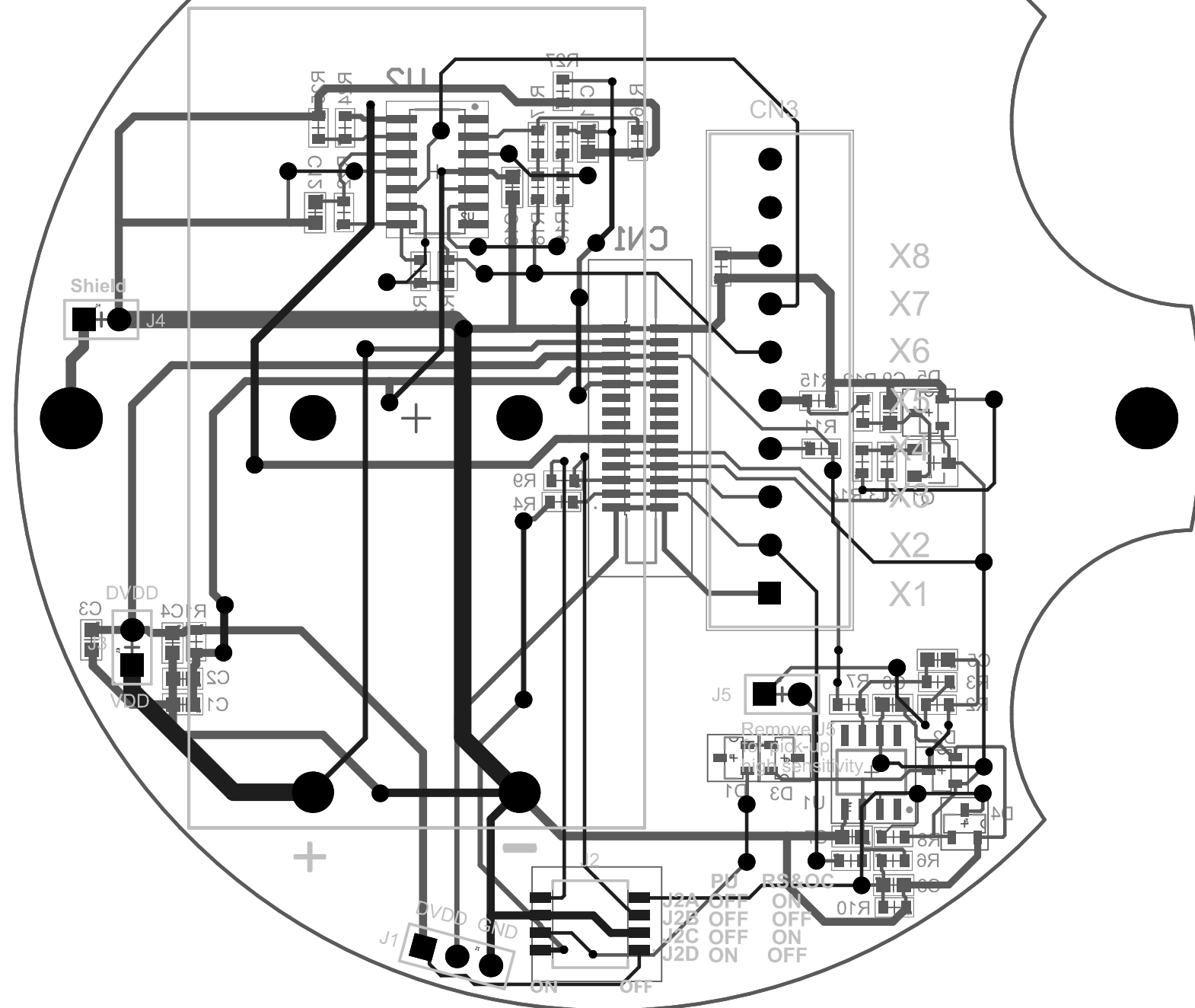




FM-320U-B3 V1R1R1

LOTE 2601163

BH1



Line #	Designator	Quantity	Manufacturer	Manufacturer Part Number	Vendor	Vendor Part Number	Price	PCBA
	BH1	1	Keystone	2462				
	C1, C3, C6	3	Yageo	CC0603KRX7R6BB105				
	C2, C4, C9, C10, C11	5	Yageo	CC0603KRX7R9BB104				
	C5	1	Yageo	CC0603JRNPO9BN330				
	C7, C8	2	Yageo	CC0603JRX7R7BB473				
	C12	1	Yageo	CC0603KRX7R9BB103				
	CN1	1	XFCN	F1003-V-14-25T-R	LCSC	C2764805		
	CN3	1	cixi_kefa_elec	KF250NH-3.5-10P	LCSC	C976564	1.22	
	D1, D2, D3, D4, D5	5	onsemi	BAV23S				
	FFC1	1	JXTOONN	JS10A-14P-200-4-8	LCSC	C2857589		Off-board cable/wire –no PCB footprint . Please source and include in PCBA assembly
	J1	1	Amphenol IOC	54101-T0600LF				
	J2	1	Kangshen	DSHP04TSGER	LCSC	C3293144		
	J3, J4, J5	3	Amphenol IOC	54101-T0600LF				
	Q1	1	Diodes Incorporated	DMG3401LSN-7				
	R1	1	Yageo	RC0603FR-0710RL				
	R2, R3, R8, R10, R14	5	Yageo	RC0603FR-071ML				
	R4, R12, R15, R17, R19, R20, R21, R23, R27	9	Yageo	RC0603FR-13100KL				
	R5, R9, R25	3	Yageo	RC0603FR-0710KL				
	R6	1	Yageo	RC0603FR-07220KL				
	R7, R11, R13, R22	4	Yageo	RC0603FR-071KL				
	R16	1	Yageo	RC0603FR-07200KL				
	R18	1	Yageo	RC0603FR-072K49L				
	R24	1	Yageo	RC0603FR-0782KL				
	R26	1	Yageo	RC0603FR-070RL				
	U1	1	Microchip Tech	MCP6541-E/SN				
	U2	1	Gainsil	GS8044-SR	LCSC			