## **Bill Of Materials for Fuente de Laboratorio**

Design TitleFuente de LaboratorioAuthorEnrique Walter Philippeaux

**Document Number** 1 **Revision** 1.3

**Design Created** lunes, 28 de agosto de 2017 **Design Last Modified** lunes, 4 de septiembre de 2017

**Total Parts In Design** 127

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32 Capa				
Quantity 3	References C1,C25,C26	PCB Package ELEC-RAD10	<u>Value</u> 1uF	Unit Cost \$0,03
2	C2,C6	ELEC-RAD20	1000uF	\$0,31
6	C3,C17,C18,C23,C24,C29	CAP20	100nF	\$0,02
6	C4, C7, C8, C30, C31, C32	ELEC-RAD30	4700uF	\$0,63
3	C5,C9,C10	ELEC-RAD30	4700uF	\$1,27
10	C11,C12,C13,C14,C15,C16,C19,C20,C21,C22	ELEC-RAD10	100uF	\$0,04
2	C27,C28	CAP10	22pF	\$0,01
Sub-totals	:			\$8,94
45 Resi	stors			
Quantity	<u>References</u>	PCB Package	<u>Value</u>	Unit Cost
5	R1,R2,R9,R14,R19	RES-3W	1R	\$0,19
8	R3,R4,R27,R28,R30,R31,R32,R45	RES-1/4W	10k	
2	R5,R6	RES-1/4W	20k	
14	R7,R8,R10,R12,R15,R17,R20,R22,R24,R35,R37,R42,R43,R44	RES-1/4W	1k	
6	R11,R13,R16,R18,R21,R23	RES-1/4W	4k	
3	R25,R26,R29	RES-1/4W	4.7k	
3	R33,R34,R41	RES-1/4W	100	
2	R36,R38	RES-1/4W	2.2k	
2	R39,R40	RES-1/4W	470	
Sub-totals	:			\$0,95
12 Integ	rated Circuits			
•	References	PCB Package	<u>Value</u>	<u>Unit Cost</u>
2	U1,U2	TO220	LM317T	\$0,56
1	U3	DIL14	LM324	\$0,28
1	U4	TO92	MCP1541	\$1,17
2	U5,U6	P1	7805	
2	U7,U8	P1	7812	
1	U9	P1	7912	\$0,46
1	U10	DIL40	PIC16F887	
1	U11	DIL08	MCP4921	\$3,73
1	U12	DIL08	LM741	
Sub-totals	:			\$6,77
5 Transi	stors			
Quantity 5	References Q1,Q2,Q3,Q4,Q5	PCB Package TO92	<u>Value</u> 2N2222A	<u>Unit Cost</u>
Sub-totals		1092	ZINZZZZZ	\$0,00
15 Diod				ψ0,00
	References	PCB Package	<u>Value</u>	Unit Cost
7	D1,D3,D5,D6,D8,D9,D10	DIODE30	1N4007	Offic Cost
5	D2,D4,D7,D11,D12	DO41	1N4733A	
2	D13,D14	LED	LED	
1	D15	DO35	BZX55C3V0RL	
Sub-totals		2000	22 3000 VOI (L	\$0,00
Cas totals	•			ψ0,00

Quantit	scellaneous y References	PCB Package Value	<u>Unit Cost</u>	
1	B1		TONERA	
3	BR1,BR2,BR3	BRIDGE1 BRII	DGE \$0,72	
2	FU1,TRAFO1	NULL		
1	HC1	CONN-SIL6 HC-(	05	
1	J1	SIL-156-08 TRA	.FO	
1	J2	HEADER-1X6 ICSI	ס	
1	J3	SIL-100-04 FAN	I	
1	J4	SIL-100-04 RGE	}	
1	LCD1	LCD16X2 LM0	16L_BL	
1	RENC1	CONN-SIL3 ROT	TARY_ENCODER	
1	RL1	RLY-OMRON-C4 G50	CLE-14-DC5	
3	RV1,RV2,RV3	PRE-SQ1 100I	<	
1	X1	XTAL18 20M	IHz \$0,56	
Sub-totals:				
Totals:			\$19,38	

lunes, 4 de septiembre de 2017 9:23:21 a.m.