Bill Of Materials for NO LIGHT LPG

Design TitleNO LIGHT LPGAuthorDustin Stroh (J3RK)

Document Number

Revision 1.2

Design Created Thursday, July 13, 2023 **Design Last Modified** Thursday, July 13, 2023

Total Parts In Design 133

0 Modules							
<u>Quantity</u>	References	<u>Value</u>	<u>PCB</u> <u>Package</u>	<u>Notes</u>			
Sub-totals	S:						
18 Cap	acitors						
Quantity	References	<u>Value</u>	<u>PCB</u> <u>Package</u>	<u>Notes</u>			
3	C1,C4,C11	1000pF	CAP10	C0G/NP0 MLCC/ Ceramic / Film (Choose Polypropylene for C11)			
2	C2,C5	1uF	CAP10	C0G/NP0 MLCC/ Ceramic / Film			
3	C3,C6-C7	10nF	CAP10	C0G/NP0 MLCC/ Ceramic / Film			
3	C8,C17-C18	1200pF	CAP10	C0G/NP0 MLCC/ Ceramic / Film			
1	C9	1500pF	CAP10	C0G/NP0 MLCC/ Ceramic / Film			
2	C10,C14	100pF	CAP10	C0G/NP0 MLCC/ Ceramic / Film			
4	C12-C13,C15-C16	330pF	CAP10	C0G/NP0 MLCC/ Ceramic / Film			
Sub-totals	•	•					
63 Resistors							
Quantity	References	<u>Value</u>	<u>PCB</u> <u>Package</u>	<u>Notes</u>			
6	R1,R12,R38-R39,R41- R42	22k	RES30	1% Resistor (100PPM / 50PPM Recommended)			
12	R2,R5,R13,R16,R28- R29,R31-R32,R34-R35, R53,R56	100K	RES30	1% Resistor (100PPM / 50PPM Recommended)			
6	R3-R4,R11,R14-R15,R22	2 1M	RES30	1% Resistor (100PPM / 50PPM Recommended)			
2	R6,R17	91K	RES30	1% Resistor (100PPM / 50PPM Recommended)			
3	R7,R18,R62	2.2K	RES30	1% Resistor (100PPM / 50PPM Recommended)			
5	R8,R19,R48,R50-R51	100R	RES30	1% Resistor (100PPM / 50PPM Recommended)			
4	R9-R10,R20-R21	1K	RES30	1% Resistor (100PPM / 50PPM Recommended)			
1	R23	820R	RES30	1% Resistor (100PPM / 50PPM Recommended) Anything between 470Rand 820Rhere.			
4	R24-R25,R37,R46	10K	RES30	1% Resistor (100PPM / 50PPM Recommended)			
4	R26-R27,R52,R55	68K	RES30	1% Resistor (100PPM / 50PPM Recommended)			
4	R30,R33,R54,R57	110K	RES30	1% Resistor (100PPM / 50PPM Recommended)			
2	R36,R47	5.1K	RES30	1% Resistor (100PPM / 50PPM Recommended)			
1	R40	6.8K	RES30	1% Resistor (100PPM / 50PPM Recommended)			
3	R43,R58-R59	220R	RES30	1% Resistor (100PPM / 50PPM Recommended)			
1	R44	180R	RES30	1% Resistor (100PPM / 50PPM Recommended)			
2	R45,R49	15K	RES30	1% Resistor (100PPM / 50PPM Recommended)			
2	R60-R61	20K	RES30	1% Resistor (100PPM / 50PPM Recommended)			
1	R63	330R	RES30	1% Resistor (100PPM / 50PPM Recommended)			
่ Sub-totals		JJJJ (I \LUUU	170 resistor (1001 r 1017 sor r 1011 recollinataea)			
11 Integrated Circuits							
_	References	<u>Value</u>	PCB Package	Notes			
2	U1-U2	TL074	Package SO14	TL074 or LF347 fine here. Something simple, but decent.			

1	U3	LM4040-5	TO92	A, B, or C type all fine here.			
1	U4	J2164	SO16	SSI2164 (SSI Version ONLY!!) Other types will not work here.			
3	U5-U7	TL072	SO8	Use high quality audio op amp (OPA2134 for example) for U6 and U7. Use high precision op amp for U5 (OPA2134 or OP2132 etc.)			
1	U8	OPA2134UA	SO8	Use high quality audio op amp (OPA2134 for example)			
2	U9,U11	TL071	SO8	TL071 fine here.			
1	U10	TLE2062	SO8	USE TLE2062 (for swing and output current)			
Sub-totals							
0 Transistors							
<u>Quantity</u>	<u>References</u>	<u>Value</u>	PCB Postego	<u>Notes</u>			
Sub-totals	s [.]		<u>Package</u>				
9 Diodes							
	<u>References</u>	Value	PCB	Notes			
			Package				
8	D1-D8	1N4148	DIODE30	Standard Small Signal Switching Diode (1N4148 or equivalent)			
1	D9	LED-BIRG	CONN- SIL2	Bi-Color 2-Lead LED (This is part of the Anti-Vandal Illuminated Pushbutton) - av2211ea12q04			
Sub-totals:							
32 Miscellaneous							
Quantity	References	<u>Value</u>	PCB Package	<u>Notes</u>			
20	BP1-BP20	100nF	0805	Decoupling / Bypass SMT0805 Capacitors C0G/NP0			
2	FB1-FB2	0R	RES30	Ferrite Beads			
1	J1	SIL-156-04	SIL-156-04	MTA-156 Friction Lock Power Header			
2	LPFDECAY1, VCADECAY1	1M	CONN- SIL3	Panel Pots (Use Log type here)			
4	LPFMIX1,LPFOFFSET1, VCAMX1,VCAOFFSET1	50K	CONN- SIL3	Panel Pots (Use Lin type here)			
2	PF1-PF2	10uF	ELEC- RAD10	Power Filtering Electrolytic Capacitors			
1	SW1	SW-SPST	CONN- SIL2	This is part of the Anti-Vandal Illuminated Pushbutton - av2211ea12q04			
Sub-totals:							

Totals:

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