Bill of M	ateriais	AL104		
Footprint	Comment	Designator	Description	Quantity
DIP-4_S	PC817	U7	4-Pin Phototransistor Optocoupl	I
C1206_S	.1uF 1206	C7, C8, C10, C14, C23, C24, C25, C26	Capacitor	
C1206_S	33nF 1206	C22	Capacitor	
C1206_S	4.7nF 1206	C20	Capacitor	
DO-41A_S	1N4007	D19	Default Diode	
DO201	MUR420	D17	Default Diode	
DO-15	P6KE200A	D18	Default Diode	
SOT23_M_S	ESDA5V3L	D24, D25, D26, D27, D28, D29, D30	DUAL TRANSIL ARRAY FOR E	
FIDUCIAL ROUND TO	Fiducial - Round	FD1, FD2, FD3	Fiducial - Round 1.5mm Top-Bo	)
SOIC-SO28_M	PIC16F886-I/SO	U4	Flash-Based, 8-Bit CMOS Micro	O
XY7501_7.62_2PIN	CON 7501 2PIN	P4, P5, P6, P15	Header, 2-Pin	
Conn_2Pin	Header 2	P19	Header, 2-Pin	
Conn_2Pin	Header 2 + Buzzer	P8	Header, 2-Pin	
 XY9521 2 Pin	XY9521 2PIN	P1, P2, P3, P18	Header, 2-Pin	
(Y128 5.08 3PIN	XY128 3PIN	P9, P10, P11, P12, P13, P14, P16, P17	Header, 3-Pin	
CONNDEBUG	Header 4	H1, H2	Header, 4-Pin	
CON ICSP	Header, 6-Pin	P7	Header, 6-Pin	
NDUCTOR 5x8	Inductor 10uH Drum Core	L1	Inductor	
SOT23 M	MMBT3906		NPN General-purpose Transisto	
JO 120_IVI	IVIIVID 1 0000	Q14, Q15, Q16, Q17, Q18	in in General-purpose Transisto	
DIP-8_S	VIPER53E	U6	OFF-line primary switch	
SOT23_M	BC857	Q5	PNP General-purpose Transisto	
Cap1_2	100uF/25V	C13, C18	Polarized Capacitor (Radial)	
Cap1	10uF/40V	C19	Polarized Capacitor (Radial)	
Cap2	22uF/80V	C15	Polarized Capacitor (Radial)	
Cap1	4.7uF/40V	C21	Polarized Capacitor (Radial)	
Cap2-2	470uF/25V	C16	Polarized Capacitor (Radial)	
C1206 S	1uF 1206	C1, C2, C3, C4, C5, C6, C9, C11, C12	Polarized Capacitor (Radial), Po	
TO252AA	μΑ78M05CKTPR	U5	Positive-Voltage Regulator	
Conn 3PIN	LM35DZ	U3	Precision Centigrade Temperatu	
SOIC14 M	LM324AD	U1, U2	Quadruple Operational Amplifie	
R1206 S	2.2K 1206	R107, R110	Resistor	
XIAL-0.5	100K .5W Metal Glaze Resistor	R70, R74	Semiconductor Resistor	
R1206 S	100K 1206	R66, R71, R75, R77	Semiconductor Resistor	
R1206_S	10E 1206	R106	Semiconductor Resistor	
R1206_S	10K 1206	R58, R65, R69, R76		
_			Semiconductor Resistor	
R1206_S	1K 1206	R45, R46, R47, R50, R60, R61, R72, R73, R116	Semiconductor Resistor	
R1206_S	1M 1206	R1, R9, R12, R20, R25, R31, R36, R44, R48, R53, R54, R56	Semiconductor Resistor	
R1206_S	220E 1206	R79, R109	Semiconductor Resistor	
R1206_S	220K 1206	R4, R8, R15, R19, R27, R30, R38, R41	Semiconductor Resistor	
R1206_S	4.7K 1206	R5, R7, R16, R18, R26, R29, R37, R40, R51, R59, R62, R63, R67, R68, R78, R82, R83, R84, R89, R90, R95, R96, R98, R100, R103, R104, R112, R114, R115	Semiconductor Resistor	
R1206_S	470E 1206	R80, R81, R85, R86, R87, R88, R91, R92, R93, R94, R97, R99, R101, R102, R105	Semiconductor Resistor	
R1206_S	470K 1206	R6, R17, R28, R39, R111, R113	Semiconductor Resistor	
R1206_S	47K 1206	R49, R57	Semiconductor Resistor	
XIAL-0.6_1W	680E 1W	R64	Semiconductor Resistor	
AXIAL-0.5	MFR 1M .5W	R2, R3, R10, R11, R13, R14, R21, R22, R23, R24, R32, R33, R34, R35, R42, R43, R52, R55		
148SMDW	LL4148	D2, D4, D5, D7, D9, D11, D14, D15, D20	Small Signal Fast Switching Dio	
RELAY	Relay	K1, K2, K3, K4, K5, K6, K7, K8	SPDT Relay	
	PRESET 5K BOURNS 3306	BTS BATT, DG BATT, MAINS UV, TEMPERATURE	Tapped Resistor	
E25_H0RIZTL	EE25 10PIN HORIZONTAL	T1	Three-winding Transformer (Sw	
ED 1206 GREEN	LED 1206 GREEN	D22	Typical RED GaAs LED	
	LED 1206 YELLOW	D1	Typical RED GaAs LED	
_ED_1206_YELLOW _ED5MMRED			**	
DO-35_S	LED R/R 5MM Zenor 12V .5W	D3, D6, D8, D10, D12, D13, D16, D23	Typical RED GaAs LED  Zener Diode 1N4741A	
JU-33_3	ZUIUI IZV .3VV	וטבו	LEHEL DIOUE HN4/41A	