

Item	Legends	Value	Rating	Package	Qty
Resistors	R1, R2	0.1E	1%	2512	20
	R19	10E		1206	10
	R20	330E		1206	10
	R6, R30	330E		0603	20
	R17	470E		0603	10
	R27	1k5		0603	10
	R14, R16	2k2	1%	0603	20
	R7, R10, R11, R18, R32	10k	1%	0603	50
	R5	15k	1%	0603	10
	R24	33k	1%	0603	10
	R21	39k	1%	0603	10
	R28	47k	1%	0603	10
	R4	75k	1%	0603	10
	R22	82k	1%	0603	10
	R12, R13, R23, R31	100k	1%	0603	40
	R15	10k	POT 3 pin	Top Screw	10
	R3	5k	1 W	Through hole	10
Capacitors	C4, C5	0.01 uF		0603	20
	C6, C7, C9	0.1 uF		0603	30
	C10	1 uF		1206	10
	C2, C3	22 uF	63 V	Through hole	20
	C1 (Box)	2.2 uF	15 V	Film Cap	10
Semiconductors	Q1	IRFZ44		TO - 220	10
	Q2	2N2222		TO - 92	10
	Q3	2N2907		TO - 92	10
	D1	Do not Populate			10
	D2, D3	1N4007			20
	LED1	Red	5 mm		10
Mics	F1 (Fuse + Holder)	Fuse	5 Amp		10
ICs	IC1	LM324		SOIC - 14	10
	IC2	LM555		SOIC - 8	10
	IC3	LM339		SOIC - 14	10
	IC4	MC2TE	white	DIP - 6	10
Connectors	J1	5 pin	PM	Male	10
	J2, J3, J4, J5	2 pin	PM	Male	40
	U1, U2	16 pin	Box headers	Male	20
	JP1 (Jumper)	3 pin	Burg stick	Male	30
	TP1, TP2, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12	1 pin	Burg stick	Male	110