

K4 BOM (3.2.2015)

Qty	Reference	Value	Description	Footprint	Comment
1	R1	100K	Metal film 0207 0.6W 1%	RM10	
2	R2,R13	330R	Metal film 0207 0.6W 1%	RM10	
4	R3,R12,R19,R37	10K	Metal film 0207 0.6W 1%	RM10	
2	R4,R5	68R	Metal film 0207 0.6W 1%	RM10	
2	R6,R7	150R	Metal film 0207 0.6W 1%	RM10	
4	R20,R22,R35,R39	100R	Metal film 0207 0.6W 1%	RM10	
3	R15,R16,R8	1K	Metal film 0207 0.6W 1%	RM10	
2	R11,R18	27R	Metal film 0207 0.6W 1%	RM7.5	
1	R9	180R	Metal film 0207 0.6W 1%	RM10	
1	R10	680R	Metal film 0207 0.6W 1%	RM10	
2	R28,R29	22R	Metal film 0207 0.6W 1%	RM10	
1	R17	33K	Metal film 0207 0.6W 1%	RM10	
2	R25,R26	27R	Metal film 0207 0.6W 1%	RM10	
3	R23,R24,R36	33R	Metal film 0207 0.6W 1%	RM10	
1	R27	39K	Metal film 0207 0.6W 1%	RM10	
2	R30,R34	4K7	Metal film 0207 0.6W 1%	RM7.5	
2	R31,R32	1M	Metal film 0207 0.6W 1%	RM7.5	
1	R33	2K2	Metal film 0207 0.6W 1%	RM7.5	
1	R38	15K	Metal film 0207 0.6W 1%	RM10	
1	R14	0R	Null resistor	RM10	
1	C1,C2	2u2/50V	Wima foil	RM5	
1	C3	1n/50V	foil/ceramic cap	RM5	
1	C4	330p/500V	ceramic cap	RM5	config dependent, see schematic
1	C5	39p/500V	ceramic cap	RM5	config dependent, see schematic
1	C6	220p/500V	ceramic cap	RM5	config dependent, see schematic
1	C7	22p/500V	ceramic cap	RM5	config dependent, see schematic
1	C8	27p/500V	ceramic cap	RM5	config dependent, see schematic
7	C9,C12,C14-C16,C23,C24	100n/100V	foil cap	RM5	
5	C10,C19-C22	1u/50V	Wima foil	RM5	
2	C11,C13	100u/25V	elyt low-esr	RM2.5	
2	C17,C18	100u/63V	elyt low-esr	RM5	
1	D1	BAV20,21	diode fast, low-cap	RM7.5	
1	D2	1N4148	diode	RM7.5	
1	D3	LED RED		RM5	rectangular shape
1	D4	LED GREEN		RM5	rectangular shape
3	D5-D7	BZX83-C15	zener 15V	RM7.5	
4	T1,T2,T7,T9	BC560C	pnp	TO-92	ON Semiconductor
6	T3,T4,T14-T17	BC546B	nnp	TO-92	ON Semiconductor
2	T5,T6	BC550C	nnp	TO-92	ON Semiconductor
1	T8	BC556B	pnp	TO-92	ON Semiconductor
2	T10,T13	KSA1381	pnp	TO-126	Fairchild
2	T11,T12	KSC3503	nnp	TO-126	Fairchild
1	OA1	OP07	opamp	DIL8	Texas Instruments
1	CON1	PSH02-02WG	connector	RM2.5	
1	CON2	MLW14G	box header 2x7 pin	RM2.5	
2	J1,J2		pin header 1x3 pin	RM2.5	for J2 use fixed wire connection - GCAS
4	HS1-HS4		TO-220 heat sink		