

item nr.	assembly order recommended	pcb. comp. ref.	value/name	4-band 5%	item nr.	5-band 1% (always check these with a ohmeter)	optional equivalences	x/pcb	tot	receiv	item nr.	kit_qty ordered
1	5	R1,19,20,21,23,24	10k	brn-blk-org-gld	1	brn-blk-blk-red-brn	same value@1%	6	6	1	1	
2	6	R2	4.7K	yel-vio-red-gld	2	yel-vio-blk-brn-brn	same value@1%	1	1	2		
3	35->solder	27,28	4.7k vert.	yel-vio-red-gld	3	yel-vio-blk-brn-brn	same value@1%	2	2	3		
4	7	R3,26	15k	brn-grn-org-gld	4	brn-grn-blk-red-brn	same value@1%	2	2	4		
5	8	R25	27k	red-vio-org-gld	5	red-vio-org-gld-brn	same value@1%	1	1	5		
6	6	R4	47k	yel-vio-org-gld	6	yel-vio-blk-red-brn	same value@1%	1	1	6		
7	9	R5,7,9,15	2.2k	red-red-red-gld	7	red-red-blk-brn-brn	same value@1%	4	4	7		
8	1	R6	10k 1% M/F		8	brn-blk-blk-red-brn		1	1	8		
9	2	R8	1k 1% M/F		9	brn-blk-blk-brn-brn		1	1	9		
10	3	R10	100Ω 1% M/F		10	brn-blk-blk-blk-brn		1	1	10		
11	10	R11	220Ω	red-red-brn-brn	11	red-red-blk-blk-brn	same value@1%	1	1	11		
12	11	R12	1k	brn-blk-red-gld	12	brn-blk-blk-brn-brn	same value@1%	1	1	12		
13	12	R13	100k	brn-blk-yel-gld	13	brn-blk-blk-org-brn	same value@1%	1	1	13		
14	13	R14	220k	red-red-yel-gld	14	red-red-blk-org-brn	same value@1%	1	1	14		
15	14	R16	180Ω	brn-gry-brn-gld	15	brn-gry-blk-blk-brn	same value@1%	1	1	15		
16	15	R17	6.8k	blu-gry-red-gld	16	blu-gry-blk-brn-brn	same value@1%	1	1	16		
17	16	R18	680Ω	blu-gry-red-gld	17	blu-gry-blk-blk-brn	same value@1%	1	1	17		
18	4	R22	470k 1% M/F		18	yel-vio-blk-org-brn		1	1	18		
19	18	R29	2.7k	red-vio-red-gld	19	red-vio-blk-brn-brn	same value@1%	1	1	19		
20	26	VR1	10k hor. trimpot		20			1	1	20		
21	27	VR2	220Ω hor. trimpot		21		200Ω hor. trimpot	1	1	21		
22	36	C1	100uF 16 VW RB electrolytic		22		10/25 VW RB electrolytic	1	1	22		
23	28	C2,4,5,13	0.1 uF/100n/104 50VW multilayer		23		0.1uF/100n/104 50VW polyester/disc/monoli	4	4	23		
24	37	C3,9	220uF 16VW RB electrolytic		24		10/25VW RB electrolytic	2	2	24		
25	40	C6	47uF 50VW bipolar RB electrolytic		25		33uF 50VW bipolar RB or other approx. value (not critical)	1	1	25		
26	25	C7	33nF/0.033uF/333 63/100VW		26			1	1	26		
27	38	C8	22uF 16/25 VW RB electrolytic		27		10/25 VW RB electrolytic	1	1	27		
28	39->solder	C10	0.47 uF/470n/474 63VW MKT		28		100VW MKT	1	1	28		
29	24	C11,12	27pF 50V NPO disc ceramic		29			2	2	29		
30	17	D1,2,5,6	1N4148		30		1N914 or similar	4	4	30		
31	19->solder	D3,4	1N4002		31		1n4004/7 etc power diode	2	2	31		
32	31	Q1,3,4,5	BC328 PNP transistor		32		BC327/A/B/C	4	4	32		
33	34	Q2,6,11,12,13	BC338 NPN transistor		33		BC337/A/B/C	5	5	33		
34	32	Q7	BC548 NPN transistor		34		BC547/A/B/C	1	1	34		
35	33	Q8,9,10	BC558 PNP transistor		35		BC557/A/B/C	3	3	35		
36	23	XTAL-1	3.58MHz resonator w/ 2 leads		36		crystal, HC-49/U case or resonator 3 leads in this case item 27 is out	1	1	36		
37	30	IC1	LP2950CZ-5.0 regulator		37			1	1	37		
38		IC2	Z86E0412 microcontroller	Firmware MKII	38	With circuit self test/Check function	Z86E0408	1	1	38		
39		IC3	4094 CMOS shift register		39			1	1	39		
40	41	DIS1,2	Kingbright LED displays SC56-11SRWA		40		Seven-segment LED displays LTS 5503AE	2	2	40		
41	42	LED1,2	3mm red LEDs		41			2	2	41		
42	20	28-pin IC socket			42			1	1	42		
43	21	18-pin IC socket			43			1	1	43		
44	22->solder	16-pin IC socket			44			1	1	44		

