

bill of materials (BOM) Sidblaster Tic-Tac (Rev.1.3)

<u>part</u>	<u>description</u>	<u>quantity</u> <u>design</u>
U1	PIC 16F886-I/SP	1 S-DIL-28
U2	FT232RL	1 SSOP 28
U3	MOS 6581 or 8580	1 DIL-28
U4	MT3608	1 6-pin SOT-23
L1 (F1)	BEAD 92-99	1
L2	4,7-22μH/1.2MHz	1 FPS
Q1	IRLML6402TRPBF	1 SOT23
C1	10nF	1 0805
C2,C3,C4,C5,C6,C7,C12,C20,C21	100nF	9 0805
C8, C9	100nF	2 25x50
C18	1000pF	1 25x50
C13	4,7μF	1 E2-4
C10,C11	22μF	2 E2-4
C77,C79	10μF	2 E2,5-5
C70,C71	470pF	2 25x50
C72,C73	22nF	2 25x50
C82,C83	2200pF	2 25x50
C80,C81	1800pF	2 25x50
R1, R2	270R	2 0805
R3,R4	1k	2 0805
R5	10k	1 0805
R9,R14	10k	2 207/10
R8,R12	1k	2 207/10
R20,R21	1k	2 0805
R22	47k	1 0805
R23	18k	1 0805
J1,J2 (Audio-Jack)	NEUTRIK NR-J4HF	2
Screw Nut Red	NEUTRIK NR-JNUTR	1
Screw Nut Black	NEUTRIK NR-JNUTB	1
X1 (USB)	LUM 2411-02	1
D1	SS26	1 DO-214AB/SMC
LED 1	SMD LED Blue	1 1206
LED 2	SMD LED Red	1 1206
T1	PN2222	1 TO92
IC Base	IC Base 28-Pin	1 DIL-28
JP1	Stripe 2,54mm red	1 2,54mm
JP2, JP3	Stripe 2,54mm blue	1 2,54mm
JP4, JP5	Stripe 2,54mm green	1 2,54mm
JP6	Stripe 2,54mm white	1 2,54mm
SV1	Stripe 2,54mm black	1 2,54mm
SV2	Stripe 2,54mm yellow	1 2,54mm
Jumper Blue	Jumper Blue	2 2,54mm
Jumper Green	Jumper Green	2 2,54mm
Jumper Red	Jumper Red	1 2,54mm
Jumper White	Jumper White	1 2,54mm

<u>remark</u>	<u>Reichelt</u>
8-bit PICmicro microcontroller, 14 KB, 20 MHz, SDIP-28	PIC 16F886-I/SP
RS232 interface bridge, USB to UART, SSOP-28	FT 232 RL
C64 Sound Interface Device SID	-
Power Step-Up	-
EMC double-ferrite interference suppression filter, 50 ohms @ 10	BEAD 92-99
10µ Chip inductor, 1212FPS, 10 µH	L-1212FPS 10µ
SMD multilayer ceramic capacitor 10 N, 10%	X7R-G0805 10N
SMD multilayer ceramic capacitor 100 N, 10%	X7R-G0805 100N
Ceramic capacitor 100 N	KERKO 100N
Ceramic capacitor 1.0 N	KERKO 1,0N
Electrolytic capacitor, 5 x 11 mm, spacing 2.0 mm	
Electrolytic capacitor, 5 x 11 mm, spacing 2.0 mm	RAD 22/16
Bipolar, Audio, NICHICON UES1E100MDM	-
Ceramic capacitor 470 P	KERKO 470P
Ceramic capacitor 22 N	KERKO 22N
Ceramic capacitor 2.2 N	KERKO 2,2N
Ceramic capacitor 1.8 N	KERKO 1,8N
SMD chip resistor, type 0805, 270 Ohm	SMD-0805 270
SMD chip resistor, type 0805, 1k	
SMD chip resistor, type 0805, 10k	
Metal oxide resistor 1 W, 5%, 10 kOhm	1W 10K
Metal oxide resistor 1 W, 5%, 1.0 kOhm	1W 1,0K
SMD chip resistor 0805, 1.0 kOhms, 0.1%	SPR-0805 1,00K
SMD chip resistor 0805, 47.0 kOhms, 0.1%	SPR-0805 47,0K
SMD chip resistor 0805, 18.0 kOhms, 0.1%	SPR-0805 18,0K
Neutrik jack socket, 6.35 mm, mono, slim	NEUTRIK NR-J4HF
Neutrik mounting nut, red	NEUTRIK NR-JNUTR
Neutrik mounting nut, black	NEUTRIK NR-JNUTB
USB panel-mounted coupler, type B, angled, PCB	LUM 2411-02
SMD Schottky diode, DO214AC, 60 V, 2 A	SK 26A SMD
LED, SMD 1206, 285 mcd, blue	LED EL 1206 BL
LED, SMD 1206, 140 mcd, red	LED EL 1206 RT
NPN TO-92 transistor 40 V 0.6 A 0.625 W	PN 2222A
IC socket, 28-pin, double spring contact	GS 28
Pin headers 2.54 mm, 1X2, straight red	
Pin headers 2.54 mm, 1X6, straight blue	
Pin headers 2.54 mm, 1X6, straight green	
Pin headers 2.54 mm, 1X2, straight white	
Pin headers 2.54 mm, 2X03, straight black	MPE 087-2-006
Pin headers 2.54 mm, 1X04, straight yellow	
Jumper, blue, RM 2.54, gold-plated	JUMPER 2,54 BL
Jumper, green, RM 2.54, gold-plated	JUMPER 2,54 GN
Jumper, red, RM 2.54, gold-plated	JUMPER 2,54 RT
Jumper 2.54 mm, open, yellow	MPE 149-1-002-F4