

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

<u>part</u>	<u>description</u>	<u>quantity</u>	<u>design</u>	<u>remark</u>	<u>Reichelt</u>
U1	PIC 16F886-I/SP	1	S-DIL-28	8-bit PICmicro microcontroller, 14 KB, 20 MHz, SDIP-28	PIC 16F886-I/SP
U2	FT232RL	1	SSOP 28	RS232 interface bridge, USB to UART, SSOP-28	FT 232 RL
U3	MOS 6581 or 8580	1	DIL-28	C64 Sound Interface Device SID	-
U4	MT3608	1	6-pin SOT-23	Power Step-Up	-
L1 (F1)	Ferrit	1	SM-1206	Ferrit	
L2	4,7-22µH/1.2MHz	1	FPS	10µ Chip inductor, 1212FPS, 10 µH	L-1212FPS 10µ
Q1	IRLML6402TRPBF	1	SOT23	IRLML 6402 MOSFET, P-Kanal, -20 V, -3,7 A, Rds(on) 0,065 Ohm, SOT-23	IRLML 6402
C1	10nF	1	0805	SMD multilayer ceramic capacitor 10 N, 10%	X7R-G0805 10N
C2,C3,C4,C5,C6,C7,C12,C20,C21	100nF	9	0805	SMD multilayer ceramic capacitor 100 N, 10%	X7R-G0805 100N
C8, C9	100nF	2	25x50	Ceramic capacitor 100 N	KERKO 100N
C18	1000pF	1	25x50	Ceramic capacitor 1.0 N	KERKO 1,0N
C13	4,7µF	1	C1206	Electrolytic capacitor 4,7µF	
C10	22µF/10V	1	C1206	Electrolytic capacitor 22µF/10V	
C11	22µF/24V	1	C1206	Electrolytic capacitor 22µF/24V	
C77,C79	10µF	2	E2,5-5	Bipolar, Audio, 25V, NICHICON UES1E100MDM1TD	Ali Express
C70,C71	470pF	2	25x50	Ceramic capacitor 470 P	KERKO 470P
C72,C73	22nF	2	25x50	Ceramic capacitor 22 N	KERKO 22N
C82,C83	2200pF	2	25x50	Ceramic capacitor 2.2 N	KERKO 2,2N
C80,C81	1800pF	2	25x50	Ceramic capacitor 1.8 N	KERKO 1,8N
R1, R2	270R	2	0805	SMD chip resistor, type 0805, 270 Ohm	SMD-0805 270
R3,R4	1k	2	0805	SMD chip resistor, type 0805, 1k	PAN ERJP06F1001
R5	10k	1	0805	SMD chip resistor, type 0805, 10k	PAN ERJP06F1002
R9,R14	10k	2	207/10	Metal oxide resistor 1 W, 5%, 10 kOhm	1/4W 10K
R8,R12	1k	2	207/10	Metal oxide resistor 1 W, 5%, 1.0 kOhm	1/4W 1,0K
R20,R21	1k	2	0805	SMD chip resistor 0805, 1.0 kOhms, 0.1%	SPR-0805 1,00K
R22	47k	1	0805	SMD chip resistor 0805, 47.0 kOhms, 0.1%	SPR-0805 47,0K
R23	18k	1	0805	SMD chip resistor 0805, 18.0 kOhms, 0.1%	SPR-0805 18,0K
J1,J2 (Audio-Jack)	NEUTRIK NR-J4HF	2		Neutrik jack socket, 6.35 mm, mono, slim	NEUTRIK NR-J4HF
Screw Nut Red	NEUTRIK NR-JNUTR	1		Neutrik mounting nut, red	NEUTRIK NR-JNUTR
Screw Nut Black	NEUTRIK NR-JNUTB	1		Neutrik mounting nut, black	NEUTRIK NR-JNUTB
X1 (USB)	LUM 2411-02	1		USB panel-mounted coupler, type B, angled, PCB	LUM 2411-02
D1	SS26	1	DO-214AB/SMC	SMD Schottky diode, DO214AC, 60 V, 2 A	SK 26A SMD
LED 1	SMD LED Blue	1	1206	LED, SMD 1206, 285 mcd, blue	LED EL 1206 BL
LED 2	SMD LED Red	1	1206	LED, SMD 1206, 140 mcd, red	LED EL 1206 RT

T1	PN2222	1 TO92	NPN TO-92 transistor 40 V 0.6 A 0.625 W	PN 2222A
IC Base	IC Base 28-Pin	1 DIL-28	IC socket, 28-pin, double spring contact	GS 28
JP1	Stripe 2,54mm red	1 2,54mm	Pin headers 2.54 mm, 1X2, straight red	Ali Express
JP2, JP3	Stripe 2,54mm blue	1 2,54mm	Pin headers 2.54 mm, 1X6, straight blue	Ali Express
JP4, JP5	Stripe 2,54mm green	1 2,54mm	Pin headers 2.54 mm, 1X6, straight green	Ali Express
JP6	Stripe 2,54mm white	1 2,54mm	Pin headers 2.54 mm, 1X2, straight white	Ali Express
SV1	Stripe 2,54mm black	1 2,54mm	Pin headers 2.54 mm, 2X03, straight black	Ali Express
SV2	Stripe 2,54mm yellow	1 2,54mm	Pin headers 2.54 mm, 1X04, straight yellow	Ali Express
Jumper Blue	Jumper Blue	2 2,54mm	Jumper, blue, RM 2.54, gold-plated	JUMPER 2,54 BL
Jumper Green	Jumper Green	2 2,54mm	Jumper, green, RM 2.54, gold-plated	JUMPER 2,54 GN
Jumper Red	Jumper Red	1 2,54mm	Jumper, red, RM 2.54, gold-plated	JUMPER 2,54 RT
Jumper White	Jumper White	1 2,54mm	Jumper 2.54 mm, open, yellow	MPE 149-1-002-F4