

uTracer Low-Cost Version Estimate

3/30/2019

Qty	Cost	Ext Cost	Ref Nos.	Vendor	Part#	Description	Notes
1	253.00	\$253.00	A201	Dos4ever.com	uTracer3+ kit	uTracer3+ "complete" kit	225 euro
9900	9.99	\$0.00	A202			AC Adapter/Power Supply/Charger 19V 1.58A 30W Laptop	assume on-hand
1	10.99	\$10.99	A203	Amazon	Cable Matters	adapter, USB to RS232 DB9 male	
32	0.13	\$4.16		Mouser	2643005701	bead, Fair-Rite #43 sleeve, 120Ω, ID=.090 OD=.200 L=.437, "SB120"	for #18 wire
1	18.00	\$18.00		Mouser	CU-3009-A	enclosure, Bud minibox 8W x 6D x 3.5H, unpainted	
1	1.95	\$1.95	F201	Jameco	18703	fuse holder, HOLE SIZE MAY BE DIFFERENT THAN TEMPLATE	
1	0.35	\$0.35		Jameco	10382	fuse, 2A, slow, 6.3x32mm	
1	2.86	\$2.86	L201	Mouser	2100HT-391-V-RC	inductor, 390uH, 2A, Bourns	
13	0.64	\$8.32		Mouser	108-0903-001	jack, banana, black	pin jacks and gnd
7	0.65	\$4.55		Mouser	108-0902-001	jack, banana, red	source jacks
1	0.84	\$0.84	J201	Mouser	L77SDE09S	jack, DB9 female	
1	1.82	\$1.82		Mouser	MPC5GD	LED lamp, green 5mm 0.32" hole 45deg	power LED
1	2.45	\$2.45		Mouser	MPC5RD	LED lamp, red 5mm 0.32" hole 45deg	HV LED
14	0.95	\$13.30		Mouser	CT2002-2	plug, banana, red, no metal on handle	for patch cords
9900	0.00	\$0.00	P201			power cord, AC, 3-wire, make from old "HP cord"	
1	2.50	\$2.50	XV204	eBay tubeaudiosupply		socket, tube, 12pin compactron, bottom mount, 1.5" centers	
1	2.50	\$2.50	XV201	eBay newoldsound		socket, tube, 7pin mini, bottom mount	
1	2.15	\$2.15	XV203	eBay tubeaudiosupply		socket, tube, 8pin octal, bottom mount	one of 5-pack
1	1.80	\$1.80	XV202	eBay tubeaudiosupply		socket, tube, 9pin mini, bottom mount	one of 5-pack
4	0.77	\$3.08		MSC	82336017	standoff, #4 1.5x3/16 hex F/F, AL	for uTracer board
1	0.16	\$0.16		Mouser	836-1150	strain relief, Heyco 1150, nylon for 0.3" cord, hole 0.5 to 0.531"	
1	2.39	\$2.39	S201	Mouser	108-1MS1T1B1M1QE-EVX	Switch, SPDT, toggle, 250VAC 2A, Mtn Swch	power switch
2	1.73	\$3.46		Digikey	36-849-ND	terminal strip, 3 terminals plus gnd. Cutoff term on 1 to make 2T+gnd.	
9900	0.00	\$0.00				wire for jumper cables and hookup, 600V, perferably #18	assume on-hand
TOTAL		\$340.63					

Notes:

1. 99XX - indicates commodity or on-hand code.
2. No support for heater reg remote sensing (e.g. sense lines).
3. Only heater supply is uTracer board.
4. No storage jacks for patch cords.
5. No vinyl panel art.
6. Tube socket details and availability vary so templates may not match actual products. See article for my table of socket parameters.