

OZ4HZ TXTRACKER PCB H04016C Components list (Correction date 19 JAN 2007)

Quantity	Reference	Part	
3	C1,C2, C5	1.5n MKT 5% Capacitor Lead pitch 5 mm (BC 2222 470 series)	(Farnell 1166064)
1	C4	10n MKT 5% Capacitor Lead pitch 5 mm (BC 2222 470 series)	(Farnell 1166055)
2	C3,C17	22u /16V Miniature radial electrolytic capacitor	(Farnell 9452206)
2	C6,C7	4.7n MKT 5% Capacitor Lead pitch 5 mm (BC 2222 470 series)	(Farnell 1166067)
1	C8	100n MKT 5% Capacitor Lead pitch 5 mm (BC 2222 470 series)	(Farnell 1166036)
6	C9,C14,C15, C18,C19,C24	100nF/50V X7R or Z5U Capacitor Lead pitch 2.54mm (RSONline 2644911 (X7R) or 2644933 (Z5U))	
1	C10	1uF/50V Miniature radial electrolytic capacitor	(Farnell 9452303)
2	C11,C12	33pF 5% Ceramic Capacitor Lead Pitch 2.54mm (NPO or N220)	(Farnell 236986)
2	C13,C16	100uF/35V UPM1V101MPD Low ESR electrolytic Capacitor(Nichicon)	(Farnell 8812543)
2	C20,C25	10nF +80/-20% Ceramic Capacitor Lead Pitch 2.54mm	(Farnell 237279)
1	C21	100nF ceramic capacitor size 0805 or 0603 XR7 10%	(Farnell 3019949)
2	C22,C23	1nF ceramic capacitor size 0805 or 0603 XR7 10%	(Farnell 3019871)
1	D1	BYV10-40 or SB140	(Farnell 518189)
1	D2	LED green 3mm	
1	D3	LED red 3mm	
1	D4	BZV85C16 1W zenerdiode 16V	(Farnell 9844104)
1	D5	30BQ040 Schottky diode	(Farnell 8647879)
2	F1,F2	1nF T-FILTER ZJSR5101-102TA (TDK)	( or Murata Farnell 9527362)
2	F3,F4	10nF T-FILTER ZJSR5101-103TA (TDK)	( or Murata Farnell 9527389)
1	Fu1	Fuseholder (Shurter OG751.0052) + 5*20mm 3A fuse	(ELFA 3315454)
1	J1	3 pin header (2.54mm) + jumper	
1	J2	3*2 pin header (2.54mm) + jumpers	
1	L1	22uH Coil ELC08D220E	(Farnell 3227200)
1	M1	144.800 MHz OZ4HZTX module	
10		Socket for TX module AP102 -BZ (Mfg Assmann)	
1	P1	9 Pole D-Sub MALE /90 for PCB	(Farnell 4106076)
1	P2	6 pole MINIDIN Connector female for PCB	(Farnell 3300304)
1	P3	DC connector K375B with 2.5 mm centre pin	(Cypax 140303051)
1	P4	Female BNC SOCKET for PCB	(Farnell 1020980)
1	P5	3 pin header with lock NSL25-3G	(Cypax 142512503)
3	Q1,Q4,Q6	BC547,BC548,BC549 or similar NPN transistor	
1	Q2	BC557,BC558,BC559 or similar PNP transistor	
1	Q3	IRLML6401PBF (SMD) P MOS transistor	(Farnell 8660093)

OZ4HZ TXTRACKER PCB H04016C Components list

Quantity	Reference	Part	
1	Q5	IRFR9024NPBF (SMD) P MOS transistor	(Farnell 8649863)
1	R1	82Kohm 5% 0.4W Resistor (SFR25)	
3	R2,R33,R38	39Kohm 5% 0.4W Resistor (SFR25)	
1	R3	20Kohm 5% 0.4W Resistor (SFR25)	
11	R4,R5,R11,R14, R17,R19, R20, R27,R31,R32, R35	10Kohm 5% 0.4W Resistor (SFR25)	
4	R6,R7,R36,R37	22Kohm 5% 0.4W Resistor (SFR25)	
4	R8,R9,R29,R30	1Kohm 5% 0.4W Resistor (SFR25)	
1	R10	10Kohm BOURNS TYPE 3362P Variable Resistor	(Farnell 9354301)
2	R12,R13	12Kohm 5% 0.4W Resistor (SFR25)	
2	R15,R16	9.1Kohm 5% 0.4W Resistor (SFR25)	
1	R18	100 ohm 5% 0.4W Resistor (SFR25)	
4	R21,R26, R28,R34	100Kohm 5% 0.4W Resistor (SFR25)	
1	R22	220 ohm 5% 0.4W Resistor (SFR25)	
1	R23	100Kohm 1% 0.6W Resistor (MRS25)	(Farnell 9463895)
1	R24	165Kohm 1% 0.6W Resistor (MRS25)	(Farnell 9464786)
1	R25	137Kohm 1% 0.6W Resistor (MRS25)	(Farnell 9464425)
1	R39-R43	1Kohm 5 pin SIL 4 Resistor network	(Farnell 9356053)
1	S1	Switch for PCB (Type EAO 0910290-01)	(RSonline 2047871)
1	S2	Switch for PCB ES-6 MINI 90 1pol ON-ON	(Cypax 100061011)
1	U1	AT89C4051-12PC + 20 pin socket	
1	U2	AT24C02-10PU-2.7	(Farnell 1095750)
1	U3	ADP3000 AN	(Farnell 3146443)
2	U4,U5	LM358N	
1	X1	1.0592MHz HC49/4H	(Farnell 9713115)

The pcb fits into this box :

OKW A9408340 (get datasheet from the website) or

OKW A9408440 with room for battery pcb (get datasheet from the website)

GPS used for this tracker :

BR355 (get datasheet from the website) (ELFA 1400065)

RS232 and power cable for BR355 (ELFA 7843105)

Remark: Most of the datasheets for components used in the TXtracker can be downloaded from the website

[www.aargang64.dk/aprs/docs/datablade.html](http://www.aargang64.dk/aprs/docs/datablade.html)

Suppliers web pages :

Farnell : [www.farnell.com](http://www.farnell.com)

RSonline : [www.rsonline.dk](http://www.rsonline.dk)

Elfa : [www.elfa.se](http://www.elfa.se)

Cypax : [www.cypax.dk](http://www.cypax.dk)