

OZ4HZ APRS TRACKER PCB H03013C Components list (Correction date 11 MAR 2006)

Quantity	Reference	Part	
1	C1	2.2nF MKT 10% Capacitor Lead pitch 5 mm (BC 2222 470 series)	(Farnell 568405)
3	C2,C12,C13	100nF MKT 10% Capacitor Lead Pitch 5mm (BC 2222 470 series)	(Farnell 567450)
1	C3	10nF +80/-20% Ceramic Capacitor Lead Pitch 2.54mm	(Farnell 237279)
1	C4	1uF/50V Miniature radial electrolytic capacitor	(Farnell 9452303)
2	C5,C6	33pF 5% Ceramic Capacitor Lead Pitch 2.54mm (NPO or N220)	(Farnell 236986)
2	C7,C9	100uF/35V UPM1V101MPD Low ESR electrolytic Capacitor(Nichicon)	(Farnell 8812543)
4	C8,C10,C11,C14	100nF/50V X7R or Z5U Capacitor Lead pitch 2.54mm (RSONline 2644911 (X7R) or 2644933 (Z5U))	
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)
4	F1,F2,F4,F5	1nF T-FILTER ZJSR5101-102TA (TDK)	( or Murata Farnell 9527362)
4	F3,F6,F7,F8	10nF T-FILTER ZJSR5101-103TA (TDK)	( or Murata Farnell 9527389)
1	L1	22uH Coil ELC08D220E	(Farnell 3227200)
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	IDC 10 Print	(Farnell 7338210)
1	P4	3 Pole Male connector (Weidmuller SL3.5/3/180G and Plug BL3.5/3)	(PCB Farnell 617568) (Plug Farnell 17362)
1	P5	9 pole D-Sub female for IDC Ribbon Cable (cable length = 10cm)	
1	J1	3 pin header (2.54mm) + jumper	
2	Q1,Q2	BC547,BC548,BC549 or similar NPN transistor	
1	Q3	BC557,BC558,BC559 or similar PNP transistor	
1	Q4	IRLML6401PBF (SMD) P MOS transistor	(Farnell 8660093)
1	R1	82Kohm 5% 0.4W Resistor (SFR25)	
2	R2,R11	39Kohm 5% 0.4W Resistor (SFR25)	
1	R3	20Kohm 5% 0.4W Resistor (SFR25)	
6	R4,R8,R9, R10,R12,R15	10Kohm 5% 0.4W Resistor (SFR25)	
1	R5	220Kohm 5% 0.4W Resistor (SFR25)	
1	R6	10Kohm BOURNS TYPE 3362P Variable Resistor	(Farnell 9354301)
1	R7	2.2Kohm 5% 0.4W Resistor (SFR25)	
5	R13,R16,R19, R20,R25	100Kohm 5% 0.4W Resistor (SFR25)	
4	R14,R21,R22,R24	1Kohm 5% 0.4W Resistor (SFR25)	

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Quantity	Reference	Part	
1	R17	220ohm 5% 0.4W Resistor (SFR25)	
1	R18	50Kohm BOURNS TYPE 3362P Variable Resistor	(Farnell 9354367)
1	R23	0ohm or short Resistor (SFR25)	
1	R26	100Kohm 1% 0.6W Resistor (MRS25)	(Farnell 9463896)
1	R27	165Kohm 1% 0.6W Resistor (MRS25)	(Farnell 9464786)
1	R28	137Kohm 1% 0.6W Resistor (MRS25)	(Farnell 9464425)
1	R29-R32	1Kohm 5 pin SIL 4 Resistor network	(Farnell 9356053)
1	S1	Switch for PCB (Type EAO 0910290-01)	(RSonline 2047871)
1	U1	AT89C4051-12PC + 20 pin socket	
1	U2	AT24C02-10PU-2.7	(Farnell 1095750)
1	U3	ADP3000 AN	(Farnell 3146443)
1	X1	11.0592MHz HC49/4H	(Farnell 9713115)
		The pcb fits into this box :	
1		OKW A9408348 (get datasheet from the website)	(Farnell 207706)
		GPS used for this tracker :	
1		BR304 (get datasheet from the website)	(ELFA 7843014)

Remark: Most of the datasheets for this tracker can be downloadet from the website

<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)