

Bill Of Materials for MART Pilot rev.5 Mon Dec 15 18:44:32 1997

Pos	Qty	Manuf.	Part #	Description	Value	Reference
1	1	Norbit	32004	4C65	1:10	T1
2	2	Texas	LM224D	Analog	Opamp_quad SO14	U5 U8
3	1	National	LM317LM	Analog	Adj neg Vreg	U11
4	2	National	LMC7101BIM	Analog	Opamp CMOS	U7 U18
5	1	Maxim	MAX608ESA	Analog	DC-DC conv	U15
6	1	Micrel	MIC5205BM5	Analog	Vreg.150mA,Adj.	U1
7	1	Philips	TDA7052AT	Analog	Audio amp	U6
8	1	Norbit	32003	Bifilar 4C65	0,32uH	T2
9	1	Microchip	PIC16LF84-04I/SO	CPU	8b FLASH MC	U17
10	22	Philips	222291016649	Capacitor	0805/100nF,25V10%	C100 C102-103 C105 C122 C139 C147 C149 C151 C155 C208-210 C222 C224 C227 C229 C234-236 C239-240
11	6	Philips	222286115101	Capacitor	0805/100pF,63V5%	C27 C51 C191 C197-198 C218
12	36	Philips	222258016627	Capacitor	0805/10nF,63V10%	C37 C53 C61-62 C64 C68 C71 C73 C79 C81 C88 C90-91 C96-99 C126-127 C130-131 C143-146 C169-171 C180 C194-196 C205 C215 C225 C248
13	19	Philips	222286115109	Capacitor	0805/10pF,63V5%	C3 C13 C19 C21 C30 C40 C46 C58 C76 C108-109 C114 C120 C135-136 C156 C162 C166 C212
14	4	Philips	222286115151	Capacitor	0805/150pF,63V5%	C183-184 C189-190
15	20	Philips	222286115159	Capacitor	0805/15pF,63V5%	C1-2 C7-8 C10 C44 C59-60 C66 C70 C77-78 C83 C110 C112-113 C115 C167 C174-175
16	28	Philips	222286115102	Capacitor	0805/1.0nF,63V5%	C4-6 C9 C11 C36 C38 C43 C54 C63 C67 C80 C85 C92 C116 C123-125 C132-133

							C153-154 C179 C204 C219-220 C223 C233 C93-95 C140-142 C201-202 C211 C216-217
17	11	Philips	222286115221	Capacitor	0805/220pF, 63V5%		C29 C134 C182 C188
18	4	Philips	222286115229	Capacitor	0805/22pF, 63V5%		C12 C14-16 C45 C47-49 C55-57 C69 C72 C74-75 C84 C87 C121 C129 C158 C164 C192 C200 C245-246 C251
19	26	Philips	222286115339	Capacitor	0805/33pF, 63V5%		C18 C22-26 C31-35 C39 C157 C163 C168
20	15	Philips	222286115338	Capacitor	0805/3.3pF, 63V		C28 C65 C82 C86 C89 C106-107 C111 C117-119 C128 C137-138 C159 C165 C177 C181 C187 C193 C199 C207 C213
21	23	Philips	222286115569	Capacitor	0805/56pF, 63V5%		C101 C104 C148 C152 C214 C221 C228 C244
22	8	Hitachi	TMCMC1E106MTR	Capacitor	C/Tan, 10u25V		C42 C232 C237-238 C241-243 C247
23	8	Nippon Chemi-con	LXF16VB270MJ12	Capacitor	270u, 16V 8x12mm		C161 C178 C186
24	3	Murata	TZBX4Z100BB	Capacitor	Trim 3-10pF		J4
25	1	AMP	2-640456-0	Connector	20p, 2.54, fric.lock		J1
26	1	none	Not connected	Connector	5p, 2.54, PCB		J2-3
27	2		Part of PCB	Connector	PCB solder pad		D2-3 D7-11 D14 D17 D19-21 D22-23
28	12	Philips	BAS16	Diode	SOT23 Si Hi-Sp		D13 D16 D1
29	2	Philips	BAT54	Diode	SOT23 Schottky		D4-6 D15 D18 D28
30	2	Philips	BBY39	Diode	Varactor, Double		D25-26 D24 D27
31	1	HP	HSMP-3802T31	Diode	PIN, DUAL, ATTEN		
32	6	HP	HSMP-3892L30	Diode	PIN, DUAL, SWITCH		
33	2	Philips	PRLL4002	Diode	Si Hi current		
34	2	Philips	PBYR245CT	Dual rectifier	45V 2A Schottky		
35	1	None	Not mounted	Dummy	0805 N.C.		R141
36	2	Murata	SAFC90.000MD40X	Filter	90 MHz +/- 5 kHz 10 MHz		U3-4
37	1	Philips	UMA1018M/C3	Frequency	Dual UHF, VHF		U10

QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY
38	1	AVX	F1206B3R00FWTR	synth.	chip1206 3A	F1	
39	1	Philips	433003038741	Fuse	100ohm at 100MHz	L38	
40	16	Coilcraft	0805HS-101TKBC	Inductor	0805/100nH,10%	L1-3 L8 L11	
						L13-19	
						L24-25	
						L34-35	
41	2	KOA	LPC4045	Inductor	100uH	L36-37	
42	8	Coilcraft	A04T	Inductor	12.5nH Air 5%	L20-23 L26	
						L29-31	
43	9	Coilcraft	B10T	Inductor	43nH Air 5%	L4-7 L12	
						L27-28	
						L32-33	
44	1	Norbit	NB32005	Inductor		T3	
45	1	Philips	74HCU04D	Logic	Hex inv unbuff	U12	
46	1	Mini-Circ	JMS-1	Mixer	2-500M 7dBm	U2	
		uits					
47	1	Bourns	3314G-1-103E	Resistor	Pot.meter,10k	R89	
48	17	Philips	232273461004	Resistor	0805/100k,1%	R3 R45 R49	
						R52-53 R58	
						R76-79 R83	
						R87 R132-133	
						R170 R172	
						R178	
49	14	Philips	232273061101	Resistor	0805/100oh,100mW	R1 R14 R24	
						R32 R36 R70	
						R108 R111	
						R119	
						R121-122	
						R131 R146	
						R153	
50	52	Philips	232273461003	Resistor	0805/10k,1%	R4 R17 R19	
						R27 R39 R42	
						R44 R46-48	
						R50 R54-55	
						R59-60 R67	
						R74-75	
						R80-82 R84	
						R88 R91-92	
						R95-96 R98	
						R100 R103	
						R113-114	
						R123-124	
						R134	
						R136-137	
						R143-144	
						R147	
						R149-152	
						R154 R159	
						R162 R171	
						R173-175	
						R177	
51	13	Philips	232273061109	Resistor	0805/10ohm,100mW	R7 R10 R13	
						R23 R31 R35	
						R66 R69 R73	
						R104 R112	
						R115 R145	
52	9	Philips	232273421503	Resistor	0805/15k,1%	R41 R56-57	
						R65 R90 R126	
						R148	
						R157-158	
53	8	Philips	232273061102	Resistor	0805/1.0k,100mW	R51 R85	
						R93-94 R97	
						R99 R139	
						R163	
54	11	Philips	232273461502	Resistor	0805/1.5k,1%	R8 R11 R21	

55	1	Philips	232273461008	Resistor	0805/1ohm,1%	R29 R33
56	7	Philips	232273061221	Resistor	0805/220oh,100mW	R62-63 R105
						R107 R116
						R118
						R72
						R2 R6 R125
						R130 R142
						R179 R216
57	27	Philips	232273421332	Resistor	0805/3.3k,1%	R5 R9 R12
						R15-16 R18
						R20 R22 R28
						R30 R34 R40
						R43 R61 R64
						R68 R101-102
						R106
						R109-110
						R117 R120
						R138 R156
						R165 R176
58	6	Philips	232273464704	Resistor	0805/470k,1%	R86 R129
						R135 R140
						R155 R164
59	7	Philips	232273464709	Resistor	0805/47ohm,1%	R25-26
						R37-38 R71
						R127-128
60	2	Philips	2322960032	Resistor	1206/0.1ohm	R160-161
61	13	Philips	BC847B	Transistor	NPN	Q1 Q4 Q6 Q8
						Q11-12 Q15
						Q19 Q22 Q24
						Q26-27 Q29
62	5	Philips	BC857B	Transistor	PNP	Q5 Q14 Q18
						Q20 Q28
63	1	Philips	BF511	Transistor	JFET N Si	Q17
64	1	Philips	BFG97	Transistor	NPN	Q13
65	7	Philips	BFR93A	Transistor	NPN 1GHz	Q2-3 Q7
						Q9-10 Q21
						Q23
66	1	Motorola	MRF5003	Transistor	N MOSFET RF 3W	Q16
67	1	Siliconix	Si9939DY	Transistor	Dual P Enh. FET	Q25
68	1	Norbit	40001	X-tal	UM-5S/MJ,12.8MHz	X1
69	1	Murata	CSA4.00MG	X-tal	4.00 MHz	X2
70	12	none		none	0805 dummy N.C	C17 C20 C41
						C50 C160
						C172-173
						C176 C185
						C203 C206
						C226
71	2			solder pad, Test-point	none	TP1-2