

Items List										Bewator Cotag	
Title		5298 Pin & Prox Reader PCA				IL02-441		Issue		5	
Drawn	MDS	Date	29-Apr-99	Checked	MDS	Date	26-Oct-99	Approvals:			
Mktg.		Date		Prod.		Date					
QA	MJDY	Date	1-Dec-99	Eng.	KOF	Date	15-Nov-99				
Actioned	MDS	Date	27-Oct-99	Checked	MDS	Date	1-Dec-99	Issue Date		1-Dec-99	
Change Notes		CN001643									
Used On		DL02-442									
Item	Ident	M.I.	Description	Qty	Units	Part No.	Var	Remarks			
1			5298 Pin & Prox Reader PCB	1		A02-462					
2						-					
3			Surface Mount Components			-					
4						-					
5	REG1		MIC29150-5.0BU +5V Regulator TO263	1		J206					
6	REG3		XC6367A502MR Switch Mode Regulator	1		J212					
7						-					
8	FS1		0.6A Resettable fuse SM	1		B141					
9						-					
10	X1		7.3920MHz +/-30PPM Crystal	1		X110					
11						-					
12	IC1		MIC4417BM4 Lowside Driver SOT143-M4	1		N149					
13	IC2		OP-AMP MAX4122EUK SOT23-5	1		N153					
14	IC3		MAX274 Active Filter SM Wide SO28	1		N148					
15	IC4		MIC6211BM5 OP-AMP SM SOT23-5	2		N147					
16	IC5		74HC164 SM SO14	1		M174					
17	IC6		LM2901M Quad Comparator SM SO14	1		N151					
18	IC7		5290 Series Reader Processor QFJ52	1		M02-67-xx		Fit using item 170. M172 programmed with SS02-67 issue xx. See D02-600 for current issue.			
19	IC8		MIC6211BM5 OP-AMP SM SOT23-5	-		N147					
20	IC9		2M33164 4.3v Voltage Monitor SOT223	1		N150					
21	IC10		FMA4 Dual Transistor Array SM IMD	1		J205					
22	IC11		BAV99 Diode Array SM SOT23	1		J176					
23						-					
24						-					
25						-					
26	TR1		NDS7002A N-Channel MOSFET SM SOT23	5		J202					
27	TR2		NDS7002A N-Channel MOSFET SM SOT23	-		J202					
28	TR3		NDS7002A N-Channel MOSFET SM SOT23	-		J202					
29	TR4		NDS7002A N-Channel MOSFET SM SOT23	-		J202					
30	TR5		NDS7002A N-Channel MOSFET SM SOT23	-		J202					
31	TR6		XP161A0390PR Enh mosfet N channel	1		J213					
32						-					

Items List							Bewator Cotag		
Title		5298 Pin & Prox Reader PCA			IL02-441		Issue 5		
Drawn	MDS	Date	29-Apr-99	Checked	MDS	Date	26-Oct-99	Approvals:	
Mktg.		Date		Prod.		Date			
QA	MJDY	Date	1-Dec-99	Eng.	KOF	Date	15-Nov-99		
Actioned		MDS	Date	27-Oct-99	Checked	MDS	Date	1-Dec-99	Issue Date 1-Dec-99
Change Notes		CN001643							
Used On		DL02-442							
Item	Ident	M.I.	Description	Qty	Units	Part No.	Var	Remarks	
33						-			
34						-			
35	D1		14V Transient Suppressor SM 0805	1		J201			
36	D2		BAS16 Small Signal Diode SM SOT23	2		J188			
37	D3		5.6V Transient Suppressor SM 0805	7		J197			
38	D4		5.6V Transient Suppressor SM 0805	-		J197			
39	D5		5.6V Transient Suppressor SM 0805	-		J197			
40	D6		5.6V Transient Suppressor SM 0805	-		J197			
41	D7		5.6V Transient Suppressor SM 0805	-		J197			
42	D8		5.6V Transient Suppressor SM 0805	-		J197			
43	D9		5.6V Transient Suppressor SM 0805	-		J197			
44						-			
45						-			
46	D12		Not fitted			-		See IL02-442	
47	D13		18V Trans Guard sm 1206 size	1		J215			
48	D14		BAS16 Small Signal Diode SM SOT23	-		J188			
49	D15		B230 Schottky Diode smt	1		J214			
50						-			
51						-			
52						-			
53	L1		330µH ±10% Inductor SM 1210	1		Q133			
54	L4		22µH ±10% Inductor SM 1210	1		Q132			
55	L5		Not fitted			-			
56	L6		Not fitted			-			
57	L7		Not fitted			-			
58	L9		47µH ±10% Inductor SM 1812	1		Q137			
59						-			
60						-			
61						-			
62	C1		4µ7 +/-20% 16v Tantalum sm	1		C340			
63	C2		10uF +/-10% 16VDC Tantalum SM	1		C332			
64	C3		2u2F +/-10% 25V Tantalum SM	1		C327			
65	C4		4u7F +/-10% 16VDC Tantalum SM	2		C331			
66	C5		3n9F +/-1% 200V SM COG 1812 NB	2		C329			
67	C6		220pF +/-2% 200V SM COG 0805 NB	2		C325			
68	C7		3n9F +/-1% 200V SM COG 1812 NB	-		C329			

Items List							Bewator Cotag	
Title		5298 Pin & Prox Reader PCA				IL02-441		Issue 5
Drawn	MDS	Date	29-Apr-99	Checked	MDS	Date	26-Oct-99	Approvals:
Mktg.		Date		Prod.		Date		
QA	MJDY	Date	1-Dec-99	Eng.	KOF	Date	15-Nov-99	
Actioned	MDS	Date	27-Oct-99	Checked	MDS	Date	1-Dec-99	Issue Date 1-Dec-99
Change Notes		CN001643						
Used On		DL02-442						
Item	Ident	M.I.	Description	Qty	Units	Part No.	Var	Remarks
69	C8		220pF +-2% 200V SM COG 0805 NB	-		C325		
70	C9		2n2F +-5% 50v SM COG 1206 NB	2		C248		
71	C10		2n2F +-5% 50v SM COG 1206 NB	-		C248		
72	C11		10nF ±10% 50V SM X7R 0805 NB	5		C328		
73	C12		10nF ±10% 50V SM X7R 0805 NB	-		C328		
74	C13		10nF ±10% 50V SM X7R 0805 NB	-		C328		
75	C14		10nF ±10% 50V SM X7R 0805 NB	-		C328		
76	C15		10nF ±10% 50V SM X7R 0805 NB	-		C328		
77	C16		1nf +-5% 50v SM X7R 0805 NB	2		C309		
78	C17		22pF +-5% 50v SM COG 0805 NB	2		C298		
79	C18		22pF +-5% 50v SM COG 0805 NB	-		C298		
80	C19		100nF +-10% 50v SM X7R 0805 NB	7		C306		
81	C20		100nF +-10% 50v SM X7R 0805 NB	-		C306		
82	C21		100nF +-10% 50v SM X7R 0805 NB	-		C306		
83	C22		100nF +-10% 50v SM X7R 0805 NB	-		C306		
84	C23		22uF +/- 10% 10VDC Tantalum SM	1		C333		
85	C24		100nF +-10% 50v SM X7R 0805 NB	-		C306		
86	C25		1000nF +80-20% 16V SM 0805 Y5V NB	1		C330		
87						-		
88	C27		4u7F +-10% 16VDC Tantalum SM	-		C331		
89	C28		100nF +-10% 50v SM X7R 0805 NB	-		C306		
90	C29		1nf +-5% 50v SM X7R 0805 NB	-		C309		
91	C30		100nF +-10% 50v SM X7R 0805 NB	-		C306		
92	C31		Not fitted			-		
93	C32		Not fitted			-		
94	C33		Not fitted			-		
95	C34		Not fitted			-		
96	C35		Not fitted			-		
97	C36		100uF +/-10% 10Vdc Tantalum sm	2		C339		
98	C37		100uF +/-10% 10Vdc Tantalum sm	-		C339		
99						-		
100						-		
101						-		
102	R1		10R +-5% 0.1W 0805 SM NB	1		R311		
103	R2		10K +-5% 0.1W 0805 SM NB	10		R306		
104	R3		10K +-5% 0.1W 0805 SM NB	-		R306		
105	R4		47K 5% 0.1W 0805 SM	5		R334		
106	R5		100K +-5% 0.1W 0805 SM NB	17		R329		
107	R6		100K +-5% 0.1W 0805 SM NB	-		R329		
108	R7		15K +-5% 0.1W 0805 SM NB	4		R340		

Items List							Bewator Cotag	
Title		5298 Pin & Prox Reader PCA				IL02-441		Issue 5
Drawn	MDS	Date	29-Apr-99	Checked	MDS	Date	26-Oct-99	Approvals:
Mktg.		Date		Prod.		Date		
QA	MJDY	Date	1-Dec-99	Eng.	KOF	Date	15-Nov-99	
Actioned	MDS	Date	27-Oct-99	Checked	MDS	Date	1-Dec-99	Issue Date 1-Dec-99
Change Notes		CN001643						
Used On		DL02-442						
Item	Ident	M.I.	Description	Qty	Units	Part No.	Var	Remarks
109	R8		47K 5% 0.1W 0805 SM	-		R334		
110	R9		33K 1% 0.1W 0805 SM	4		R336		
111	R10		22K 1% 0.1W 0805 SM	4		R335		
112	R11		22K 1% 0.1W 0805 SM	-		R335		
113	R12		33K 1% 0.1W 0805 SM	-		R336		
114	R13		47K 5% 0.1W 0805 SM	-		R334		
115	R14		15K +-5% 0.1W 0805 SM NB	-		R340		
116	R15		15K +-5% 0.1W 0805 SM NB	-		R340		
117	R16		47K 5% 0.1W 0805 SM	-		R334		
118	R17		33K 1% 0.1W 0805 SM	-		R336		
119	R18		22K 1% 0.1W 0805 SM	-		R335		
120	R19		22K 1% 0.1W 0805 SM	-		R335		
121	R20		33K 1% 0.1W 0805 SM	-		R336		
122	R21		47K 5% 0.1W 0805 SM	-		R334		
123	R22		15K +-5% 0.1W 0805 SM NB	-		R340		
124	R23		10K +-5% 0.1W 0805 SM NB	-		R306		
125	R24		100K +-5% 0.1W 0805 SM NB	-		R329		
126	R25		100K +-5% 0.1W 0805 SM NB	-		R329		
127	R26		100K +-5% 0.1W 0805 SM NB	-		R329		
128	R27		100K +-5% 0.1W 0805 SM NB	-		R329		
129	R28		220K +-5% 0.1W 0805 SM NB	1		R339		
130	R29		100K +-5% 0.1W 0805 SM NB	-		R329		
131	R30		10M +-5% 0.1W 0805 SM NB	2		R302		
132	R31		1K +-5% 0.1W 0805 SM NB	9		R309		
133	R32		220R +/- 1% 0.1W 0805 SM	4		R349		
134	R33		220R +/- 1% 0.1W 0805 SM	-		R349		
135	R34		1K +-5% 0.1W 0805 SM NB	-		R309		
136	R35		1K +-5% 0.1W 0805 SM NB	-		R309		
137	R36		1K +-5% 0.1W 0805 SM NB	-		R309		
138	R37		1K +-5% 0.1W 0805 SM NB	-		R309		
139	R38		10K +-5% 0.1W 0805 SM NB	-		R306		
140	R39		10K +-5% 0.1W 0805 SM NB	-		R306		
141	R40		10K +-5% 0.1W 0805 SM NB	-		R306		
142	R41		100K +-5% 0.1W 0805 SM NB	-		R329		
143	R42		100K +-5% 0.1W 0805 SM NB	-		R329		
144	R43		10K +-5% 0.1W 0805 SM NB	-		R306		
145	R44		100K +-5% 0.1W 0805 SM NB	-		R329		
146	R45		100K +-5% 0.1W 0805 SM NB	-		R329		
147	R46		100K +-5% 0.1W 0805 SM NB	-		R329		
148	R47		100K +-5% 0.1W 0805 SM NB	-		R329		
149	R48		100K +-5% 0.1W 0805 SM NB	-		R329		
150	R49		100K +-5% 0.1W 0805 SM NB	-		R329		
151	R50		100K +-5% 0.1W 0805 SM NB	-		R329		
152	R51		1K +-5% 0.1W 0805 SM NB	-		R309		
153	R52		1K +-5% 0.1W 0805 SM NB	-		R309		
154	R53		1K +-5% 0.1W 0805 SM NB	-		R309		
155	R54		1K +-5% 0.1W 0805 SM NB	-		R309		
156	R55		Not fitted			-		
157	R56		220R +/- 1% 0.1W 0805 SM	-		R349		
158	R57		10K +-5% 0.1W 0805 SM NB	-		R306		

Items List							Bewator Cotag	
Title		5298 Pin & Prox Reader PCA				IL02-441		Issue 5
Drawn	MDS	Date	29-Apr-99	Checked	MDS	Date	26-Oct-99	Approvals:
Mktg.		Date		Prod.		Date		
QA	MJDY	Date	1-Dec-99	Eng.	KOF	Date	15-Nov-99	
Actioned	MDS	Date	27-Oct-99	Checked	MDS	Date	1-Dec-99	Issue Date 1-Dec-99
Change Notes		CN001643						
Used On		DL02-442						
Item	Ident	M.I.	Description	Qty	Units	Part No.	Var	Remarks
159	R58		10K +-5% 0.1W 0805 SM NB	-		R306		
160	R59		10K +-5% 0.1W 0805 SM NB	-		R306		
161	R60		2K2 +/-1% 0.1W 0805 SM	1		R343		
162	R61		220R +/- 1% 0.1W 0805 SM	-		R349		
163	R62		100K +-5% 0.1W 0805 SM NB	-		R329		
164	R63		10M +-5% 0.1W 0805 SM NB	-		R302		
165	R64		Not fitted			-		
166						-		
167						-		
168						-		
169						-		
170			PLCC Socket 52 Way PCB SMT	1		Y353		
171						-		
172						-		
173						-		
174						-		
175						-		
176						-		
177						-		
178						-		
179						-		
180						-		
181						-		
182						-		
183						-		
184						-		
185						-		
186			<u>Through Hole and Other Components</u>			-		
187						-		
188	L2		Thin Card Coils	1		D02-486	4	
189	L3		Tx Coil	1		D02-1319		
190			RX Coil Carrier	1		D02-1138		
191			Nylon Snap Rivet Ø2.2 x 1.3/2.0	1		F287		
192						-		
193	CONN1		9 way vertical screw terminal	1		Y349		
194	JU1		3way straight pin header	1		Y351		
195			0.1" Pitch Jumper 2 Way	1		Y190		
196						-		
197	H1		Not fitted			-		
198	H1A		3-24V 5mA@12V 85dbA@0.5m Sounder	1		E116		
199						-		
200	REG2		LM317T +1.2V-37V Regulator	1		J117		
201			Heatsink	1		G141		
202			M3 x10 Pan Pozi Screw St/Zn	1		F131		
203			TO-220 Mounting Kit	2		G103		Discard one bush
204			M3 Shkp Washer St/Zn	1		F166		
205			M3 Full Nut St/Zn	1		F137		