

2000

MARK IV INDUSTRIES LTD.
I.V.H.S. DIVISION

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MARK IV INDUSTRIES LTD.
I.V.H.S. DIVISION
MISSISSAUGA, ONTARIO, CANADA

PL 800960 - TAB

LIST SHEET: 1 OF 6 REV: A

PRINTED WIRING ASSEMBLY,
TRANSPONDER, FPT2000,
256 BIT

DRAWN	DATE	D.O.L.	DATE	APPROVED	DATE
CHECKED	DATE	ENGRS	DATE	FILE NO.	BLM00030

ITEM No.	QTY	DESCRIPTION	REVISIONS	UNIT MEAS.	REMARKS	REV
PL	D	800960-001	PRINTED WIRING ASSEMBLY, TRANSPONDER, FPT2000, 256 BIT			
1	X		REFERENCE TEST PROCEDURE: PENDING			
2	X		REFERENCE SCHEMATIC DIAGRAM: C800965-001			
10	P	D	800961-001	1.000000	EACH	
			PRINTED WIRING BOARD, TRANSPONDER, FPT2000, 256 BIT			
11	X		MANUFACTURED AS 9-UP PANEL			
20	P	A	322631-010	1.000000	EACH	
			IC, ASIC, 256 BIT, VIDEO AMP, SOIC 24		MITEL CPN01160	
21	X		POS: U1			
30	P	-	322317-325	2.000000	EACH	
			IC, MWIC WIDEBAND AMP, SUPER MINIMOLD, 3V, CASE SOT363		NEC (CEL)	
31	X		POS: U2, U3		UPC2746TB-E3	
40	P	-	322317-326	1.000000	EACH	
			IC, DUAL NPN, WIDEBAND TRANSISTORS, SOT363		NEC (CEL)	
41	X		POS: Q1		UPA827TF-T1	
50	P	-	322628-008	1.000000	EACH	
			RESONATOR, CERAMIC, 915 MHZ, SMT, CASE LOC		RFM	
51	X		POS: U4		RS1094B	
52	X		ALTERNATE FOR U4: 322628-009		R2706	

REVISIONS

LTR	DESCRIPTION	DATE	APPL	LTR	DESCRIPTION	DATE	APPL	LTR	DESCRIPTION	DATE	APPL
A	ORIGINAL ISSUE	NSB 17 FEB 2001	BD								

MEM007 REV C SYMBOL PL - PARTS LIST X - REF DOCUMENT M - MANUFACTURED ITEM P - PURCHASED ITEM

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LIST TITLE: SHEET: 2 OF REV: A

PRINTED WIRING ASSEMBLY,
TRANSPONDER, FPT2000,
256 BIT

DRAWN	DATE	D.O.L	DATE	APPROVED	DATE
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				BLM00030	

ITEM No.	QTY	SIZE	DRAWING OR PART NO.	DESCRIPTION	QTY REQ'D	UNIT MEAS.	REMARKS	REV
60	P	-	322628-503	FILTER, BAND-PASS, CERAMIC, 2 POLE, SURF MNT, 914 MHZ	1.000000	EACH	MURATA	
61	X			POS: FIL2			DFC2R914P001HHA-TA2	
62	X			ALTERNATE FOR FIL2: 322618-505			B69812-N9156-CS04	
							EPCOS	
70	P	-	312793-047	INDUCTOR, CHIP, 82 nH, ±5%, CASE 0603, T/R	1.000000	EACH	MURATA	
71	X			POS: L1			LOG11AB2NJ00T1	
80	P	-	322626-029	CAPACITOR, CHIP, TANT, 100uF, ±10%, 6.3V, CASE 7343, T/R	1.000000	EACH	SIEMENS	
81	X			POS: C9			B45196-H1107-K809	
82	X			ALTERNATE PART NO 322626-034, INSTALL AT POS C9A			EPCOS	
83	X							
90	P	-	327996-002	CAP, CHIP, 4PF7, ±0.25pF, 50V, SURF MNT, CASE 0402	3.000000	EACH	MURATA	
91	X			POS: C11, C12, C14			GRN36C0G4R7C050A0	
100	P	-	327996-007	CAPACITOR, CHIP, 1nF, ±10%, 50V, CASE 0402, T/R	1.000000	EACH	MURATA	
101	X			POS: C10			GRN36X7R10ZK050A0	

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LIST SHEET: 3 OF REV: A

PRINTED WIRING ASSEMBLY,
TRANSPONDER, FPT2000,
256 BIT

DRAWN	DATE	D.O.L.	DATE	APPROVED	DATE
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ITEM No.	SIZE	DRAWING OR PART NO.	DESCRIPTION	QTY REQ'D	UNIT MEAS.	REMARKS	REV
120	P -	327996-010	CAPACITOR, CHIP, 1PF8, ±0.25PF, 50V, SURFACE MOUNT, CASE 0402	2.000000	EACH	MURATA	
121	X	-	POS: C3, C5			GRN36C0G1R8C050AQ	
122	X	-	ALTERNATE FOR C3: 327996-007			GRN36C0G4R7C050AQ	
						MURATA	
130	P -	327996-005	CAPACITOR, CHIP, 22PF, ±5%, 50V, CASE 0402, T/R	3.000000	EACH	MURATA	
131	X	-	POS: C2, C4, C6			GRN36C0G220J050AQ	
140	P -	327996-004	CAPACITOR, CHIP, 10PF, ±5%, 50V, CASE 0402, T/R	1.000000	EACH	MURATA	
141	X	-	POS: C7			GRN36C0G100J050AQ	
150	P -	327996-001	CAPACITOR, CHIP, 2PF2, ±0.25PF, 50V, CASE 0402, T/R	1.000000	EACH	MURATA	
151	X	-	POS: G13			GRN36C0G2R2C050AQ	
160	P -	327995-012	RESISTOR, CHIP, 1M00, ±1%, 1/16W, CASE 0402, T/R	1.000000	EACH	SEI	
161	X	-	POS: R8			Rgc1/16S-1M00-1%	

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MEM007 REV C SYMBOL PL - PARTS LIST X - REF DOCUMENT M - MANUFACTURED ITEM P - PURCHASED ITEM

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DRAWN	DATE	D.O.L.	DATE	APPROVED	DATE
CHECKED	DATE	ENGRG	DATE	FILE NO.	BLM00030

LIST TITLE: PRINTED WIRING ASSEMBLY, TRANSPONDER, FPT2000, 256 BIT
SHEET: 4 OF
REV: A

ITEM No.	SIZE	DRAWING OR PART NO.	DESCRIPTION	QTY REQ'D	UNIT MEAS.	REMARKS	REV
170	P	327995-014	RESISTOR, CHIP, 82K, ±5%, 1/16W, CASE 0402, T/R	1.000000	EACH	SEI	
171	X		POS: R10			RMG1/16S-82K-5%	
180	P	327995-009	RESISTOR, CHIP, 45K3, ±1%, 1/16W, CASE 0402, T/R	1.000000	EACH	SEI	
181	X		POS: R1			RMG1/16S-45K3-1%	
190	P	327995-006	RESISTOR, CHIP, 16K, ±5%, 1/16W, CASE 0402, T/R	1.000000	EACH	SEI	
191	X		POS: R9			RMG1/16S-16K-5%	
200	P	327995-005	RESISTOR, CHIP, 2K4, ±5%, 1/16W, CASE 0402, T/R	1.000000	EACH	SEI	
201	X		POS: R11			RMG1/16S-2K4-5%	
210							
211							
220							
221							

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PRINTED WIRING ASSEMBLY,
TRANSPONDER, FPT2000,
256 BIT

LIST SHEET: 5 OF REV: A

DRAWN	DATE	D.O.L.	DATE	APPROVED	DATE
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ITEM No.	QTY	SIZE	DRAWING OR PART NO.	DESCRIPTION	QTY REQ'D	UNIT MEAS.	REMARKS	REV
230	P	-	327995-003	RESISTOR, CHIP, 24R, ±5%, 1/16W, CASE 0402, T/R	1.000000	EACH	SEI	
231	X			POS: R2			RMCI/16S-24R-5%	
240	P	-	327995-002	RESISTOR, CHIP, 10R, ±5%, 1/16W, CASE 0402, T/R	4.000000	EACH	SEI	
241	X			POS: R3 - R6			RMCI/16S-10R-5%	
250	P	-	327995-018	RESISTOR, CHIP, 510R, ±5%, 1/16W, CASE 0402, T/R	1.000000	EACH	SEI	
251	X			POS: R7			RMCI/16S-510R-5%	
252	X			ALTERNATE FOR R7: 327995-017			RMCI/16S-180R-5%	
260	P	A	322618-003	BATTERY, LITHIUM, 3.6V, 1.0 AH	1.000000	EACH		
261	X			POS: BATT1				
270	P	-	311983-108	THERMISTOR, CHIP, 500 OHMS, ±5%, CASE 0805	1.000000	EACH	SIETRON	
271	X			POS: R13			NZZ-501-J-325JT	
280	P	B	801093-001	PWB, BATTERY CONNECTION, FLEX, FPT	1.000000	EACH		

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SYMBOL PL - PARTS LIST X - REF DOCUMENT M - MANUFACTURED ITEM P - PURCHASED ITEM

REV C



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PRINTED WIRING ASSEMBLY,
TRANSPONDER, FPT2000,
256 BIT

DRAWN	DATE	D.O.L.	DATE	APPROVED	DATE
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ITEM No.	SIZE	DRAWING OR PART NO.	DESCRIPTION	QTY REQ'D	UNIT MEAS.	REMARKS	REV
290	P	322633-005	RESISTOR, CHIP, OR, 1/10W, CASE 0805	3.000000	EACH	SEL RMC1/10-OR-0%	B
291	X		POS: RB1, RB2, RB3				

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