

UNIVERSAL TRANSCEIVER PARTS LIST

Assembly 21810

Revised 3/11/99 @ 7:30AM

NAME	Value	Wattage	TOL	SIZE	MFG	PART#	LESTER#	DIST	QTY	\$\$\$	EXT	QOH
Resistor 10 ohm R28,11		1/10 W	5%	0805	AVX	CR21-100J-T	28894	KNT	2	.035	.007	
Resistor 510 ohm R30		1/10 W	5%	0805	AVX	CR21-511J-T	28896	KNT	1	."	.0035	
Resistor 1k ohm R21		1/10 W	5%	0805	AVX	CR21-102J-T	28897	KNT	1	"	.0035	
Resistor 2,2k ohm R14,24		1/10 W	5%	0805	AVX	CR21-222J-T	28898	KNT	2	"	.007	
Resistor 8.2k ohm R32		1/10 W	5%	0805	AVX	CR21-822J-T	28902	KNT	1	"	.0035	
Resistor 10k ohm R1-6,12,16,18,27		1/10 W	5%	0805	AVX	CR21-103J-T	28903	KNT	10	"	.035	
Resistor 22k ohm R31		1/10 W	5%	0805	AVX	CR21-223J-T	28904	KNT	1	"	.0035	
Resistor,27k ohm R9		1/10 W	5%	0805	DALE	CR21-273J-T	29266	KNT	1		.0035	5K
Resistor 51k ohm R15		1/10 W	5%	0805	AVX	CR21-513J-T	28907	KNT	1	"	.0035	
Resistor 100k ohm R19,20,26		1/10 W	5%	0805	AVX	CR21-104J-T	28908	KNT	3	"	.0105	
Resistor 200k ohm R25		1/10 W	5%	0805	AVX	CR21-204J-T	28909	KNT	1	"	.0035	

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NAME	Value	Wattage	TOL	SIZE	MFG	PART#	LESTER#	DIST	QTY	\$\$\$	EXT	QOH
Resistor 1.0M ohm R22,29		1/10 W	5%	0805	AVX	CR21-105J	28914	KNT	2	.0035	.007	
Resistor 6.8M ohm R23		1/10 W	5%	0805	AVX	CR21-685J	28917	KNT	1	“	.0035	
Resistor 10M ohm R13		1/10 W	5%	0805	AVX	CR21-106J	28918	KNT	1	“	.0035	
Pot 470K 1turn R17		1/10W	5%	SOT23	PAN	EVM-7JSX30BQ5	28951	KNT	1	.274	.274	
Pot 100K 1 turn R10		1/10W	5%	SOT23	PAN	EVM-7JSX30B15	29267	KNT	1	.274	.274	***

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Name	Type	Value	Tol	Volts	Size	Tpco	Mfg	Mfg Part #	LSTR#	Dist	QTY	\$\$	EXT	QOH
CAPACITOR C23	CER	4.7pf	5%	50	0805	NPO	AVX PHIL	08055A4R7JATMA 0805CG479CBB2	29316	KENT KENT	1	.015	.015	
CAPACITOR C2,3	CER	20pf	5%	50	0805	NPO	AVX	08055A220JATMA	29268	KENT	2	.0125	.025	***
CAPACITOR C10,18,20	CER	27pf	5%	50	0805	NPO	AVX KEM	08055A270JATMA C0805C270J5GAC	28938	KENT STRLG	3	.0125	.0375	
CAPACITOR C14,17	CER	33pf	5%	50	0805	NPO	AVX KEM	08055A330JATMA C0805C330J5GAC	28939	KENT STRLG	2	.035	.07	
CAPACITOR C9,11,12,19	CER	100pf	5%	50	0805	NPO	AVX KEM	08055A101JATMA C0805C101J5GAC	28941	KENT STER	5	.0125	.05	
CAPACITOR C1,4,7,13,22-	CER	.1uf	20%	50	0805	X7R	AVX KEM	08055C104MATA C0805C104M5UAC	28937	KENT STER	5	.0113	.0565	
CAPACITOR C8,21	TANT	1uf	10%	16	0805	Z5U	AVX KEM	TAJA105K035R T491A105K016AS	28944	KENT STER	2	.09	.18	
CAPACITOR C5,15,16	TANT	10uf	10%	6	0805	Z5U	AVX KEM	TAJA106K006R T491B106K006AS	28946	KENT STER	3	.103	309	
CAPACITOR C6	TANT	100uf	10%	16	1210	Z5U	AVX	TAJD107M016R	29067	KENT	1	.27	.27	

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NAME	PART #	LSTR #	DESCRIPTION	MFG	DIST	QTY	\$\$\$	EXT	QOH
IC, ANALOG U2	LM2931M	29207	VOLTAGE REGULATOR	NATL	FUTURE	1	..42	.42	95
IC, DIGITAL U1	PIC16C73B-10I/P	29246	MICROPROCESSOR	MCHP	FUTURE	1	4.07	4.07	***
IC, ANALOG/RF U4	RX2056	28928	RECEIVER 916.500MHZ	RFM	INSIGHT	1	10.08	10.08	
IC, ANALOG/RF U5	HX2000	28929	TRANSMITTER 916.500MHZ	RFM	INSIGHT	1	5.34	5.34	
IC, ANALOG U6	LM358M	28931	DUAL OP AMP	NATL	FUTURE	1	.16	.16	
IC, ANALOG/RF U3	MAR-8SM	28932	MMIC	MCKT	FACTORY	1	.98	.98	
TRANSISTOR NPN Q1,2,9	MMBT2222	28933	GENERAL PURPOSE	MANY	FUTURE	2	.015	.03	
TRANSISTOR PNP Q3,5,6,7,8	MMBT2907	28934	GENERAL PURPOSE	MANY	FUTURE	4	.03	.12	
TRANSISTOR NPNRF Q4	BFS17H	28936	RF	ZTX,PHL	FUTR,ADVNT	1	.10	.10	7

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NAME	PART NUMBER	LSTR#	DESCRIPTION	MFG	DIST	QTY	\$\$	EXT	QOH
DIODE,RECTIFIER D1,15	DL4004	28953	1A 400V SMT	MICROSEMI	FUTURE	3	.042	.126	
DIODE,DUAL D17	BAV99	28954	HOT CARRIER	PHIL,ZTX	FUTR,ADVNT	1	.10	.10	
DIODE D18	MMBD101LT1	28956	RF	MOT	FUTURE		1	.145	.145
DIODE D2,5,8,9,10,12,13,,20	MMBD914L	28998	SWITCHING	MOT,PHIL	FUTUR E	8	.032	.256	
DIODE,SCHOTTKY D11	MA152	29209	40V 100 MA	PAN	DK	1	.075	.075.	***
INDUCTOR L1-4,6-9	ELK-E103FA	29276	EMI NOISE FILTER	PAN	DK	8	.26	2.08	4K
INDUCTOR L11	LQN21AR10J04M00	28961	100nH 0805	MURATA	KNT,STRLG,	1	.106	.106	
INDUCTOR L14	HK212522JT LQP21A22NG14 ELJ-ND22NKF IMC-080522NH10%	29317	22nH 0805	TAIYO YUDEN MUR PAN DALE	SCHUST FUTURE KNT,DK KENT	1	.23	.23	
INDUCTOR L10	ML252018BT-101J ELJFC101JF	28963	100uH 0805 SMT 1008	TDK PANASONIC	ADVENT	2	.09	.09	
INDUCTOR,FERRITE	27-43-021447	28962	FERRITE	STEWARD	KENT	2	.20	.40	
ANTENNA	TRA9023PTSMA	29251	BASE STATION	ANTENNEX	SAME	1	18.00	18.00	50

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CHASSIS	ERB-5-041 ANO	29271	ALUMINUM	BUCK	BUCKEYE	1	9.80	9.80	50
PLATE,END		29231	ANTENNA END	LSTR	FAB	1	.50	.50	
PLATE,END		29234	COM PORT	LSTR	FAB	1	.50	.50	
SCREW,MACH		04297	PHILLIPS			8	.024	.198	
NUT, HEX, ZINC 4-40		03919				2	.034	.068	
WASHER,COMPRESSION,4-40		10136				2	.031	.062	
SCREW		21955	JACKSCREW KIT	KEYST	SCOTT	1	.15	.15	
CONNECTOR,DB9	ADS-09-LL	14667	MALE,CHAS MT	ASMN	SCOTT	1	1.16	1.16	
CONNECTOR,SMA	901-143-6-RFX RSA-3300	24354	CHASSIS MT RT ANG FEMALE	AMPH RFI	DK FUTR	1	3.41	3.41	50
RESONATOR Y1	PBRC10.00BR07/AL	29252	CERAMIC RES	AVX	KENT,FUTR	1	.56	.56	
CRYSTAL Y2	XC488	29208	32.768khz	ECS		1	1.476	1.476	400
BOARD,PC		21735	PC BOARD			1	2.45	2.45	

COMPUTER	ILH386V/9015	29211	BASE STATION PC	MCSI	MCSI	1	520.00
1.44MEG FLOPPY		29253	DISK,FLOPPY 1.44M	MITSUMI	AMI	1	17.00
RS232 CABLE						1	12.00
MODEM	K56FLEX	29249	MODEM,56K w/V.90			1	\$39.50

			TOTAL COMPONENT COST	72.402
			ESTIMATED PC ASSEMBLY COST BY DICTAPHONE	12.00
LABOR	SOLDER DB9	2 MINUTES		
	SOLDER SMA	2 MINUTES		
	TEST & CAL	4 MINUTES		
	ASSEMBLE	2 MINUTES		
	FINAL TEST	2 MINUTES		
	LABEL	1 MINUTE		
	PACKAGE	2 MINUTES		
		TOTAL LABOR	15 MINUTES	

LABOR	LOAD SOFTWARE	1 MINUTE	
	CONFIGURE	3 MINUTES	
	TEST	8 MINUTES	
	LABEL	1 MINUTE	
	PACKAGE	4 MINUTES	
		TOTAL LABOR	17 MINUTES