KP ELECTRONIC SYSTEMS LTD

Part List of: ELB102L

Rev: 02

Description: BSR100D (Modem) Board L Band

Cat.No.	Rev:	Description	Manuf. P/N	Qty	Location
CAE002		Electrolytic cap. 47µF 25V Radial (2.5mm)	CE47M25R ELR47/25 SSL1E470MACf	1	C204
CAP002		Cap.SMD 1206 0.1µF 50V 20%	CC100N1206Z CC1206KRX7R9BB104 CL31F104MBNC	1	C73
CAP003		Cap.SMD Tantalum 2.2µF 25V 20%	SCS1E225MAAR	5	C21,C26,C43,C110,C119
CAP014		Cap.SMD 1206 10nF 50V 10%	CAP014 CC1206KRX7R9BB103 CCA0N1206Z CL31B103KBNC	1	C10
CAP040		Cap.SMD 10uF 25V 20% Tantalum	293D106X9025C2T SCS1E106MCAR	6	C164,C219,C220,C221,C222,C223
CAP043		Cap.SMD 47uF 16V 20% Tantalum	293D476X0016D2T TCSCS1C476MDAR	2	C218,C224
CAP049		Cap Chip Tant 4.7uF 16V 20%	TCSCS1C475MAAR	2	C109,C120
CAP051		CAP SMD 1206 1µF 25V 10%	CL31B105KANE	1	C2025
CAP1000		Cap 0805 MLCC X7R 1nF 50V 10%	CC0805KRX7R9BB102 CL21B102KBNC	11	C101,C128,C130,C143,C195,C196, C197,C198,C407,C2017,C2027
CAP1001		Cap 0805 MLCC NPO 30pF 50V 5%	CL21C300JBNC	3	C168,C169,C2014
CAP1002		Cap 0805 MLCC NPO 100pF 50V 5%	CL21C101JBNC	19	C22,C39,C40,C42,C49,C80,C90,C95, C96,C97,C98,C99,C108,C118,C153, C167,C179,C180,C408
CAP1003		Cap 0805 MLCC NPO 22pF 50V 5%	CL21C220JBNC	1	C32
CAP1004		Cap 0805 MLCC NPO 33pF 50V 5%	CL21C330JBNC	1	C142
CAP1005		Cap 0805 MLCC X7R 10nF 50V 10%	CC0805KRX7R9BB103 CL21B103KBNC	33	C55,C58,C81,C82,C83,C100,C111, C112,C113,C114,C121,C123,C126, C129,C133,C135,C136,C140,C141, C146,C154,C161,C205,C206,C210, C211,C213,C214,C215,C216,C404, C406,C122
CAP1007		Cap 0805 MLCC X7R 220nF 25V 10%	CL21B224KANC	1	C115
CAP1010		Cap 0805 MLCC X7R 4.7nF 50V 10%	CL21B472KBNC	2	C71,C178
CAP1011		Cap 0805 MLCC CO6 330pF 50V 5%	CL21C331JBNC	2	C104,C116
CAP1012		Cap 0805 MLCC NPO 4.7pF 50V -+0.1pF	CL21C4R6BBNC CL21C4R7BBNC	2	C17,C85
CAP1013		Cap 0805 MLCC NPO 18pF 50V 5%	CL21C180JBNC	2	C31,C45
CAP1014		Cap 0805 MLCC NPO 27pF 50V 5%	CL21C270JBNC	2	C53,C63
CAP1015		Cap 0805 MLCC NPO 10pF 50V 5%	CL21C100JBNC	2	C38,C107
CAP1016		Cap 0805 MLCC NPO 1pF 50V -+0.1pF	CL21C010BBNC	2	C35,C37
CAP1017		Cap 0805 MLCC NPO 3.9pF 50V -+0.1pF	CL21C3R9BBNC	2	C16,C132
CAP1018		Cap 0805 MLCC NPO 3.3pF 50V -+0.1pF	CL21C3R3BBNC	1	C30
CAP1019		Cap 0805 MLCC NPO 15pF 50V 5%	CL21C150JBNC	1	C20
CAP1020		Cap 0805 MLCC X7R 100nF 50V 10%	CL21B104KBAC CL21B104KBNC	24	C23,C57,C60,C61,C64,C91,C93,C94, C137,C139,C144,C149,C155,C172, C174,C175,C176,C177,C217,C225, C226,C410,C2022,C2026
CAP1021		Cap 0805 MLCC NPO 12pF 50V 5%	CL21C120JBNC	3	C34,C145,C162
CAP1023		Cap 0805 MLCC NPO 39pF 50V 5%	CL21C390JBNC	1	C152

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Cat.No.	Rev:	Description	Manuf. P/N	Qty	Location
CAP1026		Cap 0805 MLCC X7R 1uF 16V 10%	CAP1026	17	C50,C59,C92,C127,C150,C156,C173, C181,C182,C183,C405,C409,C2016, C2018,C2019,C2021,C2028
			CL21B105KONE		
			CL21F105MONC		
			CM21Y5V105Z16AT		
			GRM40X7R105K16D530		
CAP1027		Cap 0805 MLCC NPO 68pF 50V 5%	CL21C680JBNC	2	C54,C151
CAP1028		Cap 0805 MLCC NPO 8.2pF 50V -+0.25pF	CL21C8R2CBNC	3	C27,C29,C106
CAP1029		Cap 0805 MLCC NPO 2.7pF 50V - +0.1pF	CL21C2R7BBNC	3	C17*,C28,C134
CAP1030		Cap 0805 MLCC NPO 1.5pF 50V -+0.1pF	CL21C1R5BBNC	2	C14,C33
CAP1031		Cap 0805 MLCC NPO 120pF 50V 5%	CL21C121JBNC	2	C84,C103
CAP1032		Cap 0805 MLCC NPO 2.2pF 50V -+0.1pF	CL21C2RBBNC	1	C18
CAP1034		Cap 0805 MLCC NPO 5.6pF 50V -+0.25pF	CL21C5R6CBNC	2	C56,C138
CAP1035		Cap Thin Film ACCU-P 0805 22pF 50V 5%	08055J220JBTTR	5	C3,C6,C8,C163,C229
CAP1037		Cap Thin Film ACCU-P 0805 12pF 100V 5%	08051K120JBTTR	2	C11,C160
CAP1038		Cap Thin Film ACCU-P 0805 1pF 100V -+0.1pF	08051J1R0BBTTR	1	C9
			08051J1R0BBTTR		
CAP1044		Cap 0805 MLCC NPO 20pF 50V 5%	CL21C200JBNC	4	C25,C36,C62,C147
CAP1045		Cap 0805 MLCC NPO 5.6nF 50V 10%	CL21B562KBNC	1	C68
CAP1047		Cap 0805 MLCC NPO 33nF 50V 10%	CL21B333KBNC	1	C102
CAP1050		Cap 0805 MLCC NPO 16pF 50V 5%		2	C15,C19
CAP1052		Cap Thin Film ACCU-P 0805 1.5pF 100V -+0.1pF	08051J1R5BBTTR	2	C7,C402
CAP1053		Cap Thin Film ACCU-P 0805 33pF 25V 5%	08053J330JBT	1	C1
			08053J330JBTTR		
CAP1054		Cap Thin Film ACCU-P 0805 18pF 50V 2%	08055J180GBT	2	C4,C12
			08055J180GBTTR		
CAP1055		Cap 0805 MLCC NPO 24pF 50V 5%	CL21C240JBNC	2	C124,C125
CAP1058		Cap 0805 MLCC 2.2uF 25V	GRM40Y5V225Z25	1	C2015
			GRM40Y5V225Z25PT		
			GRM40Y5Y225Z10		
CAV006		Chip Trimmer Capacitor 6-35pF	AT9410-3 SL1	3	C159,C2029,C2030
			AT9410-3-SL-1		
CEF016		Ceramic Filter for Communication Equipment CFUS455I	CFULA455KF4A-B0	1	F3
CEF017		Crystal Filters 45MHz 7.5A	MCFC1-45M7.5AB	2	F1,F2
COI027		SMD Coil 270nH 10%	1008CS 271KXBB	1	L18
			1008CS-271 XKBC		
COI028		SMD Coil 82nH 10%	1008CS 820XKBB-82	7	L1,L2,L3,L6,L7,L8,L9
			1008CS-820 XKBC		
COI030		SMD Coil (A04T-12.5)	A04T	1	L67
			AO4T		
COI039		SMD Coil 220nH 5%	1008CS-221 XJBC	1	L55
			1008CS-221XJBC		
			LCN1008T-R22J		
			LEM3225TR22M		
COI040		SMD Coil 100nH 10%	1008CS-101 XKBC	2	L5,L54
			1008CS-101XKBC		
			LCN1008T-R10K		
			LEM3225TR10M		
COI041		SMD Coil 10uH 10%	1008LS-103 XKBC	9	L40,L41,L45,L50,L52,L53,L59,L68, L69
			1008LS-103XKBC		
			LEM3225T100K		
			SMDFSR1008-100K		
COI042		SMD Coil 120nH 10%	1008CS-121 XKBC	1	L56
			1008CS-121XKBC		
			LCN1008T-R12K		
			LEM3225TR12M		

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Cat.No.	Rev:	Description	Manuf. P/N	Qty	Location
COI044		SMD Coil 22nH 10%	1008CS-220 XKBC	1	L57
			1008CS-220XKBC		
			LCN1008T-22NK		
			LEM3225T22NM		
COI048		SMD Coil 43nH B10T	B10T 43 NH	1	L62
COI053		SMD Coil 1.2uH 2%	1008CS-122 XGBC	5	L13,L14,L15,L17,L19
COI058		SMD Emi Suppression Bead Core	SB 3040	3	L63,L65,L71
COI059		SMD Coil 47nH 5%	1008CS-470XJBC	2	L32,L33
			LCN1008T-470J		
COI060		SMD Mini Spring Inductors 5nH	A02T	1	L61
COI066		SMD Midi Spring Inductor 68nH Coilcraft 2%	1812SMS-68NJ	2	L27,L29
COI069		SMD Midi Spring Inductor 56nH Coilcraft 5%	1812SMS-56NJ	3	L28,L30,L58
			SMTSCO504-56NJ		
COI070		SMD Midi Spring Inductor 47nH Coilcraft 5%	1812SMS-47NJ	1	L31
			SMTSCO504-47NJ		
COI071		SMD Midi Spring Inductor 120nH Coilcraft 2%	1812SMS-R12NG	2	L34,L46
			SMTSCO504-R12J		
COI073		SMD Midi Spring Inductor 100nH Coilcraft 5%	1812SMS-R10NJ	2	L38,L64
			SMTSCO504-R10J		
COI074		Molded Coil 455KHz	5PLC-A473HM	1	L72
CON054		Metal Housing BNC Connector for PCB 90 Degrees	2250-201-211-001	2	J1,J2
			3105-000A		
			B-950		
			B3004B		
			G31-5640		
			MCI-7044ML50		
			SB-142-13.1mm50OHM9		
			SB142B11MB20		
			VBM211		
CON069		4 Pins Connector for PCB	CP33-04P1H00	1	J3
CON070		CD D-Sub 15 Pins Receptacle Connector	CD05-15S21J0	1	J8
CON101		Pin Header Connector	CI01-07P1VKO	1	J6
CRY455		Crystal 44.545000 MHz 10 PPM	P87/144.335	1	Y1
CRY623		Crystal 11.0592MHz 50PPM	XS11M059U30B	1	Y3
CRY649		Voltage Control Temperature Compensated Crystal Osc	VTX661025LIE12.800-5	1	U5
DIO001		Diode SMD (5A)	MMBD4148	1	D3
			MMBD4148-7		
			MMBD6050LT1		
			MMBT6050LT1		
DIO003		Varicap Diode SMD (M4C)	FMMV3102LT1	2	D8,D9
			FMMV3102TA		
			MMBV3102LT1		
DIO008		Shotki Diode 3A	1N5822	1	D10
			1N5822/4T		
			DIO008		
			SB540		
DIO009		SMD Pin Diode	MA4P1250-1072	2	D1,D2
			SMD Pin Diode		
			UM9401F		
			UM9401F T/R		
DIO010		Dual Silicon Diode SMD	MMBD352LT1	1	D6
FBD003		Ferrite Bead SMD 0805	CIB21P260NES	18	L4,L10,L16,L20,L21,L22,L23,L24, L35,L36,L37,L42,L43,L44,L47,L48, L49,L60
FUE1000		Fuse SMD 0805 2.5A	TF 20N 2.50	2	FU1,R2331
			TF20N2.50		
ICS060		ICS SMD MB1501PF FUJITSU	MB1501PF	1	U6
			MB1501PF FUJITSU		
			MB1501PF-ER		

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Cat.No.	Rev:	Description	Manuf. P/N	Qty	Location
ICS061		ICS SMD LP2951CD	LP2951	6	U11,U12,U13,U14,U15,U18
			LP2951-02BM		
			LP2951CD		
			LP2951CD SMD		
			LP2951CM		
			LP2951CMX		
ICS062		ICS SMD X24C02	24LC02B/SN	1	U10
			AT24C02-10SC T/R		
			AT24C02N-10SC		
			X24C02		
ICS068		ICS SMD JMS-1 (Mixer)	JMS-1	1	U1
ICS069		ICS SMD MC3372D	MC3372D	1	U2
ICS071		ICS SMD LM2902D	LM2902D	1	U17
ICS099		ICS SMD Rail to-RAIL Operational Amplifiers	TLC2274ID	1	U19
LBL035		White Polyester 8 X8mm Label	113WP10	3	
			LBL035		
LBL045		White Polyester 6.35 x19.05mm Label	105WP10	1	
			LBL045		
LED001		Mini Red Led (3mm)	204IT	1	D17
			HLMP1700		
			LT-03-11-41		
			TLL 30 221		
			VLL30231LC		
LED009		Led 3mm 2 Color Red/Green (Everlight)	204EGW	2	D15,D16
MET154	C	Bottom for Synthesizer BSR100\BSRU100	MET154	1	
MET155	C	Bottom for Power Amplifier BSR100\BSRU100	MET155	1	
PCB074	1.1	PCB for BSR100D (Modem)	127-0130	1	
			pcb074		
PLN001		Plain Terminal Brass Tinned #4*7/16"	118050	2	Q17,Q17
			טרמינל 2.5 מ"מ		
PLS038		90 Deg. - Led Holder	LEDH-101C-38	3	D15,D16,D17
PLS039		UM-1 Insulating Washer	650-051	2	F1,F2
			UM-1		
RES020		Resistor SMD 10K 5% 1/4W	RC1206JR-0710K	1	R2304
			RC3216J103CS		
RES051		Resistor SMD Chip 2010 220 OHM 5% 3\4W	RC20-220R	1	R9
RES056		Res. Chip 2010 18 OHM 3/4W 5%	RC2010JK-0718R	2	R111,R111*
RES1000		Res. Chip 0805 2.2K 5% 1/8W	RC2012J222CS	4	R61,R62,R63,R129
RES1001		Res. Chip 0805 1K 5% 1/8W	RC0805JR-071K	19	R10,R19,R35,R94,R117,R142,R143, R145,R151,R156,R158,R164,R166, R167,R189,R194,R197,R2324,R2327
			RC2012J102CS		
RES1002		Res. Chip 0805 100K 5% 1/8W	RC2012J104CS	14	R11,R27,R64,R68,R147,R148,R155, R162,R165,R170,R171,R2306,R2315, R2323
RES1003		Res. Chip 0805 47K 5% 1/8W	RC0805JR-0747K	7	R20,R28,R130,R131,R132,R133,R302
			RC2012J473CS		
RES1005		Res. Chip 0805 33K 5% 1/8W	RC2012J333CS	1	R6
RES1006		Res. Chip 0805 18K 5% 1/8W	RC2012J183CS	1	R1
RES1007		Res. Chip 0805 10K 5% 1/8W	RC0805JR-0710K	14	R22,R29,R134,R2305,R2307,R2308, R2309,R2310,R2311,R2312,R2313, R2318,R2320,R2321
			RC2012J103CS		
RES1009		Res. Chip 0805 10 OHM 5% 1/8W	RC2012J100CS	3	R97,R98,R110
RES1010		Res. Chip 0805 3.3K 5% 1/8W	RC2012J332CS	1	R3
RES1011		Res. Chip 0805 22K 5% 1/8W	RC2012J223CS	1	R65
RES1013		Res. Chip 0805 100 OHM 5% 1/8W	RC2012J101CS	2	R23,R108
RES1014		Res. Chip 0805 180 OHM 5% 1/8W	RC2012J181CS	4	R73,R79,R86,R91
RES1018		Res. Chip 0805 1.5K 5% 1/8W	RC2012J152CS	3	R66,R71,R83
RES1020		Res. Chip 0805 820 OHM 5% 1/8W	RC2012J821CS	3	R5,R100,R104
RES1021		Res. Chip 0805 120 OHM 5% 1/8W	RC2012J121CS	1	R99

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Cat.No.	Rev:	Description	Manuf. P/N	Qty	Location
RES1022		Res. Chip 0805 620 OHM 5% 1/8W	RC2012J621CS	3	R75,R85,R96
RES1025		Res. Chip 0805 6.8K 5% 1/8W	RC2012J682CS	1	R177
RES1027		Res. Chip 0805 1.8K 5% 1/8W	RC2012J182CS	2	R25,R173
RES1030		Res. Chip 0805 3.9K 5% 1/8W	RC2012J392CS	5	R4,R33,R81,R82,R109
RES1031		Res. Chip 0805 2.2M 5% 1/8W	RC2012J2252CS	5	R12,R13,R150,R154,R160
			RC2012J225CS		
RES1032		Res. Chip 0805 560K 5% 1/8W	RC2012J5642CS	6	R93,R95,R146,R159,R168,R169
			RC2012J564CS		
RES1033		Res. Chip 0805 1.5M 5% 1/8W	RC2012J155CS	1	R152
RES1034		Res. Chip 0805 6.2K 5% 1/8W	RC2012J622CS	2	R72,R84
RES1035		Res. Chip 0805 5.6K 5% 1/8W	RC2012J562CS	1	R176
RES1036		Res. Chip 0805 2K 5% 1/8W	RC2012J202CS	2	R21,R172
RES1037		Res. Chip 0805 18 OHM 5% 1/8W	RC2012J180CS	2	R77,R88
RES1038		Res. Chip 0805 39K 5% 1/8W	RC2012J393CS	1	R24
RES1039		Res. Chip 0805 0 OHM 5% 1/8W	RC2012J000CS	12	R8,R15,R18,R67,R69,R80,R149,R157, R178,R305,R2002,R2302
			RC2012J4322CS		
RES1042		Res. Chip 0805 15 OHM 5% 1/8W	RC0805JR-0715K	3	R112,R174,R175
			RC2012J150CS		
RES1043		Res. Chip 0805 56 OHM 5% 1/8W	RC2012J560CS	2	R7,R105
RES1045		Res. Chip 0805 300 OHM 5% 1/8W	RC2012J301CS	6	R76,R78,R87,R89,R106,R107
RES1047		Res. Chip 0805 270 OHM 5% 1/8W	RC2012J271CS	1	R17
RES1048		Res. Chip 0805 51K 5% 1/8W	RC2012J513CS	2	R26,R2316
RES1049		Res. Chip 0805 91K 5% 1/8W	RC2012J913CS	1	R161
RES1050		Res. Chip 0805 2.7K 5% 1/8W	RC2012J272CS	2	R101,R102
RES1054		Res Chip 0805 68K 5% 1/8W	RC05-683JR	1	R34
RES1060		Res Chip 0805 33 OHM 5% 1/8W	RC2012J330CS	1	R103
RES1061		Res Chip 0805 560 OHM 5% 1/8W	RC2012J561CS	1	R2317
RES1062		Res Chip 0805 56K 5% 1/8W	RC2012J563CS	1	R92
SOC004		Chip Carier PLCC-44-DIP	1342-044-099-010	1	U9
			4140-44TT1		
			6601-44-PPS		
			CS21 44 11 000		
			LA440010		
			PLCC-44-T		
TRN004		Transistor SMD (1A)	MMBT3904	10	Q4,Q5,Q6,Q9,Q21,Q22,Q24,Q26,Q28, Q29
			MMBT3904LT1		
			TRN004		
TRN005		Transistor SMD FET (K72 / 702)	2N7002	2	Q30,Q31
			2N7002LT1		
			SN7002		
			SN7002 T/R		
TRN006		Transistor SMD PNP (2A)	MMBT3906	6	Q1,Q3,Q11,Q20,Q23,Q27
			MMBT3906LT1		
			TRN006		
TRN008		Transistor SMD (7P) (Motorola)	MMBR911LT1	3	Q2,Q12,Q13
TRN011		SMD RF Low Power Tran. 1w , 175MHz.	MRF4427	1	Q16
			MRF4427R2		
TRN014		Transistor SMD (7H)	MMBR5179LT1	2	Q14,Q15
TRN020		Mini Amplifier Transistor (MAR-7SM)	MAR-7 SM	2	U7,U8
			MAR-7SM		
TRN021		Mini Amplifier Transistor (MAR-6SM)	MAR-6 SM	1	U3
			MAR-6SM		
TRN024		RF Power Transistor on VHF	2SC2539	1	Q17
VRS1000		Chip SMD Trimmer Potentiometer 100K	5W-104	2	P4,P5
			POG5AN-1-104K		

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Cat.No.	Rev:	Description	Manuf. P/N	Qty	Location
VRS1001		Chip SMD Trimmer Potentiometer 20K	44WR20KT7 44WR20KTB 5W-203 POG5A-1-203K POG5AN-1-203K	1	P2

	Edited by	Approved by
Name:	Ludmila	V. Dashinsky
Date:	01.02.04	04. 02. 04
Signature:		