

# Part List of: ELB188

 Rev: 05
Description: MT2W Board

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<u>Cat.No.</u>	<u>Rev:</u>	<u>Description</u>	<u>Manuf. P/N</u>	<u>Qty</u>	<u>Location</u>
<b>ANT1000</b>		Antenna Chip 2.45 GHz SMD 1206	2450AT18A100	1	ANT1
			2450AT18A100E		
			ANT3216LL00R2400A		
<b>CAP055</b>		Cap. SMD 1206 10µF 25V 10%	C1206B106K025T	3	C18,C188,C190
			CL31A106KAHNNNE		
<b>CAP1011</b>		Cap 0805 MLCC COG 330pF 50V 5%	0805N331J500LT	1	C194
			CL21C331JBANNNC		
			CL21C331JBNC		
			GRM2165C1H331JA01D		
<b>CAP1014</b>		Cap 0805 MLCC NPO 27pF 50V 5%	CL21C270JBANNNC	3	C201,C206,C207
			CL21C270JBNC		
			MA0805CG270J500PR		
<b>CAP1019</b>		Cap 0805 MLCC NPO 15pF 50V 5%	CL21C150JBNC	2	C211,C214
<b>CAP1030</b>		Cap 0805 MLCC NPO 1.5pF 50V +-0.1pF	CL21C1R5BBNC	2	C193,C195
<b>CAP1032</b>		Cap 0805 MLCC NPO 2.2pF 50V +-0.1pF	CL21C2R2BBNC	1	C205
<b>CAP1034</b>		Cap 0805 MLCC NPO 5.6pF 50V +-0.25pF	CL21C5R6CBNC	2	C196,C209
			GRM2165C1H5R6CD01D		
<b>CAP1044</b>		Cap 0805 MLCC NPO 20pF 50V 5%	CL21C200JBANNNC	1	C208
			CL21C200JBNC		
<b>CAP1058</b>		Cap 0805 MLCC Y5V 2.2uF 25V +-80-20%	C0805Y225Z025T	7	C7,C16,C21,C30,C41,C180,C182
			CC0805Y5V4Z225RL		
			GRM21BF51E225ZA01L		
			GRM40Y5V225Z25		
			GRM40Y5V225Z25PT		
			GRM40Y5Y225Z10		
<b>CAP2001</b>		Cap 0603 MLCC COG 30pF 50V 5%	CL10C300JB8NNNC	1	C142
			CL10C300JBNC		
<b>CAP2005</b>		Cap 0603 MLCC X7R 10nF 50V 10%	CC0603KRX7R9BB103	1	C181
			CL10B103KB8NNNC		
<b>CAP2006</b>		Cap 0603 MLCC X7R 100nF 50V 10%	CL10B104JBNC	1	C197
			CL10B104KB8NNNC		
<b>CAP2009</b>		Cap 0603 MLCC COG 330pF 50V 5%	CL10C331JB8NNNC	7	C183,C185,C191,C192,C198,C200,C219
<b>CAP2016</b>		Cap 0603 MLCC COG 8.2pF 50V 5%	CL10C8R2CBNC	2	C120,C124
			CL10C8R2JBNC		
<b>CAP2019</b>		Cap 0603 MLCC COG 5.6pF 50V +-0.25pF	CL10C5R6CB8ANNC	1	C203
<b>CAP2025</b>		Cap 0603 MLCC COG 12pF 50V 2%	C0603N120G050T	3	C117,C119,C123
			CL10C120GB8NNNC		
			GRM1885C1H120GA01D		
<b>CAP2032</b>		Cap 0603 MLCC X7R 56pF 50V 5%	500R14N560JV4T	1	C204
			CL10C560JB8NNNC		
			GRM1885C1H560FA01D		
<b>CAP2034</b>		Cap 0603 MLCC COG 3.3pF 50V +-0.25pF	CL10C3R3CB8NNNC	2	C132,C133
<b>CAP2036</b>		Cap 0603 MLCC COG 82pF 50V 5%	CL10C820JB8NNNC	1	C137
			GRM1885C1H820JA01D		
<b>CAP2044</b>		Cap 0603 MLCC COG 15pF 50V 5%	CL10C150JB8NNNC	2	C141,C143
			GRM1885C1H150GA01D		
<b>CAP2052</b>		Cap 0603 MLCC COG 6pF 50V +-0.5pF	CL10C060DB8NNNC	2	C127,C128
			GRM1885C1H6R0DZ01D		
<b>CAP2057</b>		Cap 0603 MLCC X7R 1.8nF 50V 10%	CL10B182KB8NNNC	1	C113

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<b>CAP2064</b>		Cap 0603 MLCC COG 0.5pF 50V +/-0.1pF	CL10C0R5BB8NNNC	1	C121
<b>CAP3000</b>		Cap 0402 MLCC COG 1pF 50V +/-0.25pF	CL05C010BB5NNNC	3	C70,C73,C75
			CL05C010CB5NNNC		
			GRM1555C1H1R0CA01D		
<b>CAP3001</b>		Cap 0402 MLCC COG 1.5pF 50V +/-0.25pF/+0.1pF	CL05C1R5BB5NNNC	1	C77
			CL05C1R5CB5NNNC		
			GRM1555C1H1R5CA01D		
<b>CAP3002</b>		Cap 0402 MLCC COG 1.8pF 50V +/-0.25pF/+0.1pF	CL05C1R8BB5NNNC	1	C76
			CL05C1R8CB5NNNC		
			GRM1555C1H1R8CA01D		
<b>CAP3003</b>		Cap 0402 MLCC COG 100pF 50V 5%	CL05C101JB5NNNC	25	C1,C2,C3,C4,C5,C6,C10,C11,C22, C25,C26,C35,C36,C37,C51,C54,C64, C65,C66,C67,C72,C78,C144,C148, C46
			GRM1555C1H101JA01D		
<b>CAP3004</b>		Cap 0402 MLCC COG 220pF 50V 5%	CL05C221JB5NNNC	3	C83,C85,C86
			GRM1555C1H221JA01D		
<b>CAP3005</b>		Cap 0402 MLCC X7R 100nF 16V 10%	CL05B104KO5NNNC	23	C13,C17,C19,C31,C40,C43,C45,C50, C52,C55,C57,C61,C62,C74,C82,C87, C88,C89,C91,C189,C216,C221,C222
			GRM155R71C104KA88D		
<b>CAP3006</b>		Cap 0402 MLCC COG 15pF 50V 1%	0402N150F500NU	4	C68,C69,C102,C104
			CL05C150FB5NNNC		
			GRM1555C1H150FA01D		
<b>CAP3007</b>		Cap 0402 MLCC COG/X7R 1nF 50V 5%	0402N102J500NU	4	C14,C20,C24,C27
			CL05B102JB5NNNC		
			CL05C102JB5NNNC		
			GRM1555C1H102FA01D		
<b>CAP3008</b>		Cap 0402 MLCC X7R 10nF 50V 5%	C0402C103J5RACTU	8	C15,C28,C114,C147,C179,C186,C187, C217
			CL05B103JB5NNNC		
<b>CAP3009</b>		Cap 0402 MLCC X7R 47nF 16V 5%	0402B473J160NU	12	C44,C99,C100,C101,C107,C108,C109, C112,C122,C138,C139,C140
			C0402C473J4RACTU		
			CL05B473JO5NNNC		
<b>CAP3013</b>		Cap 0402 MLCC X5R 1uF 10V 10%	CC0402B105K100	5	C8,C12,C23,C29,C146
			CL05A105KP5NNNC		
<b>CAP3014</b>		Cap 0402 MLCC COG 20pF 50V 5%	CL05C200JB5NNNC	27	C38,C39,C42,C48,C49,C80,C81,C90, C92,C94,C95,C96,C97,C98,C105, C106,C110,C111,C115,C116,C130, C131,C135,C136,C145,C220,C71
<b>CAP3015</b>		Cap 0402 MLCC X7R 220nF 10V 10%	CL05B224KP5NNNC	3	C9,C63,C125
<b>CAP3019</b>		Cap 0402 MLCC X7R 4.7nF 50V 10%	CL05B472KB5NNNC	7	C53,C56,C60,C79,C84,C93,C218
<b>CAP3025</b>		Cap 0402 MLCC COG 22pF 50V 5%	CL05C220JB5NNNC	1	C59
<b>CAP3026</b>		Cap 0402 MLCC COG 27pF 50V 5%	CL05C270JB5NNNC	1	C58
<b>COI042</b>		SMD Coil 120nH 10%	1008CS-121XJLC	1	L40
			1008CS-121XKBC		
			LCN1008T-R12K		
			LEM3225TR12M		
<b>COI088</b>		SMD High Q Coil Chip 1008 18nH 5%	1008HQ-18NXJLC	1	L33
<b>COI089</b>		SMD High Q Coil Chip 1008 56nH 5%	1008HQ-56NXJLC	1	L28
<b>COI1000</b>		SMD Coil Chip 0805 39nH 5%	0805CS-390XJLC	1	L38
<b>COI1001</b>		SMD Coil Chip 0805 33nH 5%	0805CS-330XGLC-2%	1	L39
			0805CS-330XJLC		
<b>COI1009</b>		SMD Coil Chip 0805 5.6nH 5%	0805CS-050XJLC	1	L32
<b>COI101</b>		SMD High Q Coil Chip 1008 47nH 5%	1008HQ-47NXJLB	1	L37
			1008HQ-47NXJLC		
<b>COI104</b>		SMD High Q Coil Chip 1008 100nH 5%	1008HQ-R10XJLC	1	L29
<b>COI114</b>		SMD Square Air Core Coil 1515SQ 47nH 5%	1515SQ-47NGEC	3	L34,L35,L36
			1515SQ-47NJEC		
<b>COI116</b>		SMD High Q Coil Chip 1008 33nH 5%	1008HQ-33NXGLC	1	L31
			1008HQ-33NXJLC		
<b>COI2006</b>		SMD Coil Chip 0603 82nH 5%	0603CS-82NXJLW	4	L17,L21,L22,L23
<b>COI2007</b>		SMD Coil Chip 0603 220nH 5%	0603CS-R22XJLW	1	L27

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<b>COI2008</b>		SMD Coil Chip 0603 47nH 5%	0603CS-47NXJLW	2	L25,L26
<b>COI2012</b>		SMD Coil Chip 0603 150nH 5%	0603CS-R15XJLW	1	L19
<b>COI2015</b>		SMD Coil Chip 0603 39nH 5%	0603CS-39NXJLW	1	L20
<b>COI2021</b>		SMD Coil Chip 0603 270nH 5%	0603CS-R27XGBC 0603CS-R27XJLW	2	L18,L30
<b>COI3000</b>		SMD Non-Magnetic Coil Chip 0402 1.2nH +/-0.3nH	LQG15HS1N2S02D	3	L12,L13,L16
<b>COI3001</b>		SMD Coil Chip 0402 2.7nH 2%	0402CS-2N7XGLW	1	L15
<b>COI3002</b>		SMD Coil Chip 0402 3.9nH 2%	0402CS-3N9XGLW	1	L14
<b>CON110</b>		SMD 2 pin Header Connector P=2mm, Gold Plated	2001MS-02GW-U CI01-02M1VR0-LF CI0102M2VR0-LF	1	J5
<b>CON120</b>		SMD 6 pin Header Connector P=2mm, Gold Plated	2001MS-06GW-U WB2007US-06-G5-גליגל	1	J1
<b>CRY723</b>		SMD Crystal 32.000MHz 10PPM, X20	8355HX16 32.000MHZ 8355HX16@32.000MHZ 9881X20 32.000 MHz	1	Y4
<b>CRY725</b>		SMD Crystal 26.000MHz 2.0x1.6x0.45mm	9274X20 26M S2016A-026000F10ABPA	1	Y3
<b>CRY729</b>		SMD Crystal 32.768KHz 10PPM, 12.5pF,3.2x1.5mm	SC-32S-12.5pF-10ppm	1	Y1
<b>DIO022</b>		ESD Protection SMD Diode, PESD24VS1UB, Package	PESD24VS1UB PESD24VS1UB ,115 PESD24VS1UB,115	7	D2,D3,D4,D5,D6,D7,D10
<b>DIO028</b>		SMD Dual Hot Carrier Mixer Diode, MMBD352LT1G (	MMBD352LT1G	1	D13
<b>DIO030</b>		SMD PIN Diode for RF Switch, SMP1371-087LF, Pack	SMP1371-087LF	2	D16,D17
<b>FBD002</b>		Ferrite Bead SMD 1206	BLM31P500SPT BLM31PG500SN1L CIC31P500NE CIC31P500NE/C FBM3216HS800-T	1	L11
<b>FBD005</b>		Ferrite Bead SMD 0603 1K @100MHz	CIM10U102NC SBK160808T-102Y-N	7	L1,L2,L3,L4,L5,L6,L10
<b>ICS127</b>		ICS SMD LC LP 2.4GHz RF Transceiver CC2500RTK	CC2500RGPR CC2500RTKR	1	U10
<b>ICS141</b>		ICS SMD High Performance RF Transceiver, CC1120,	CC1120RHBR CC1120RHBT CC1120RHMR CC1120RHMT	1	U14
<b>ICS164</b>		ICS SMD Bus Buffer/Line Driver, 74AHCT1G126, Pack	74AHCT1G126DCKR 74AHCT1G126DCKRG4 74AHCT1G126SE-7 74HCT1G126GW SN74AHCT1G126DCKRG4	6	U4,U5,U7,U11,U12,U13
<b>ICS165</b>		ICS PLQP0052 16-bit CMOS Microcontroller, R5F2125	R5F21258SNFP#V2	1	U6
<b>ICS171</b>		ICS SMD Analog Multiplexer, 74HCT4051, Package T	74HCT4051PW M74HCT4051ADTR2G M74HCT4051TTR	1	U8
<b>ICS172</b>		ICS SMD Buffer Gate with 3-State Output, SN74LVC1	74LVC1G126SE-7 NC7SZ126P5 NC7SZ126P5X SN74LVC1G126DCKR	1	U9
<b>LBL035</b>		White Polyester 8 X8mm Label	113WP10 LBL035	1	
<b>LBL045</b>		White Polyester 6.35 x19.05mm Label	105WP10 LBL045	1	

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<b>LED1000</b>		SMD Red Led 1.8mm Round	*42-21SURCS530A2TR8 4-21SURCS530A2TR8 42-21SURC/S530-A2TR 42-21SURCS530A2 42-21SURCS530A2TR8 KNR1209C2.4W XZMDK78W	2	D11,D12
<b>PCB123</b>	<b>1.3</b>	PCB for MT2W	PCB123	1	
<b>REG1006</b>		SMD Voltage Regulator, 5V, Stand-by Function, MCP1	MCP1804T-5002I/MT XC6216B502PR-G	1	U3
<b>REG1013</b>		SMD High Operat. Voltage Regulator, 3.3V, S-812C33	S-812C33AUA-C2NT2G S-812C33AUA-C2NT2U	1	U1
<b>REG1018</b>		SMD High Operating Voltage Regulator, 5.5V, S-812C	S-812C55BMC-C5JT2G	1	U2
<b>RES012</b>		Resistor SMD 1206 4.7 OHM 5% 1/4W	RC3216J4R7CS	1	R26
<b>RES1008</b>		Res. Chip 0805 390 OHM 5% 1/8W	RC0805JR-07390R RC2012J391CS	1	R122
<b>RES2008</b>		Res Chip 0603 300 OHM 5% 1/10W	FCF03JT301 RC0603JR-07300RL RC1608J301CS	2	R120,R121
<b>RES2012</b>		Res Chip 0603 2.2K 5% 1/10W	RC0603JR-072K2 RC1608J222CS	2	R112,R117
<b>RES2027</b>		Res Chip 0603 0 OHM 5% 1/10W	CR-03JL7---0R FCF03JT000 RC0603JR-070R RC1608J000CS	3	R71,R75,L24
<b>RES2041</b>		Res Chip 0603 560 OHM 5% 1/10W	RC0603JR-07560RL RC1608J561CS	1	R118
<b>RES2050</b>		Res Chip 0603 18 Ohm 5% 1/10W	RC1608J180CS	1	R119
<b>RES2051</b>		Res Chip 0603 220 Ohm 5% 1/10W	RC1608J221CS	1	R116
<b>RES2065</b>		Res Chip 0603 3K 5% 1/10W	RC1608J302CS	1	R114
<b>RES2074</b>		Res Chip 0603 22 Ohm 5% 1/10W	RC0603JR-0722RL RC1608J220CS	1	R82
<b>RES3000</b>		Res Chip 0402 10K 5% 1/16W	RC0402JR-0710KL RC1005J103CS	9	R14,R24,R29,R45,R49,R123,R125, R126,R127
<b>RES3001</b>		Res Chip 0402 100K 5% 1/16W	RC0402JR-07100KL RC1005J104CS	11	R15,R16,R17,R22,R25,R27,R34,R47, R51,R57,R36
<b>RES3002</b>		Res Chip 0402 1K 5% 1/16W	RC0402JR-071KL RC1005J102CS	21	R11,R21,R23,R32,R53,R54,R58,R61, R62,R65,R66,R67,R68,R69,R70,R72, R74,R80,R110,R111,R115
<b>RES3004</b>		Res Chip 0402 0 Ohm 5% 1/16W	RC0402JR-070RL RC1005J000CS	4	R6,R7,R31,R41
<b>RES3005</b>		Res Chip 0402 4.7K 5% 1/16W	RC0402JR-074K7L RC1005J472CS	4	R35,R42,R44,R128
<b>RES3008</b>		Res Chip 0402 2K 5% 1/16W	RC0402JR-072KL	3	R43,R46,R113
<b>RES3009</b>		Res Chip 0402 2.7K 5% 1/16W	RC0402JR-072K7L	1	R33
<b>RES3011</b>		Res Chip 0402 56K 5% 1/16W	RC0402JR-0756KL	2	R59,R77
<b>RES3013</b>		Res Chip 0402 15 Ohm 5% 1/16W	RC0402JR-0715RL	6	R37,R38,R40,R55,R60,R63
<b>RES3014</b>		Res Chip 0402 51 Ohm 5% 1/16W	RC0402JR-0751RL	6	R3,R4,R5,R8,R9,R10
<b>RES3018</b>		Res Chip 0402 150 Ohm 1% 1/16W	RC0402FR-07150RL	1	R30
<b>RES3021</b>		Res Chip 0402 100 Ohm 5% 1/16W	RC0402JR-07100RL	1	R13
<b>SWC1001</b>		Pico Dry-reed Switch	FR-2024 FR2024 FRB-2024 MK23-66-B-2 RI-27SMD-10-15	1	SW1

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<b>TRN005</b>		Transistor SMD FET, 2N7002 (K72 / 702 / 12P), Packa	2N7002	1	Q6
			2N7002-7-F		
			2N7002LT1		
			SN7002		
			SN7002 T/R		
<b>TRN031</b>		SMD Transistor, 30V P-Channel, FDN360P/TSM3401	FDN360P	1	Q4
			TSM3401CX RF PFET		
<b>TRN034</b>		SMD Power Transistor - RD00HVS1, 175MHz, 0.5W,	RD00HVS1-101	1	Q8
			RD00HVS1-T113		
<b>TRN036</b>		Silicon MOSFET Power Transistor 175MHz, 6W - RD0	RD06HVF1-101	1	Q9
<b>TRN049</b>		Transistor SMD N/P-channel Enhancement Mode, FD	BSD235CH6327XTSA1	2	Q1,Q3
			FDG6332C		
			PMGD290UCEAX		
<b>ZEN003</b>		Zener Diode SMD 7.5V, MBZ5236 (KF1/ 8L), Package	BZX84C7V5LT1	2	D14,D15
			MMBZ5236B		
			MMBZ5236BLT1		
			MMBZ5236BLT1G		

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<u>Date:</u>		
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