

Part List of: ELB188

Rev: 05
Description: MT2W Board

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

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CAP2064		Cap 0603 MLCC COG 0.5pF 50V +-0.1pF	CL10C0R5BB8NNNC	1	C121
CAP3000		Cap 0402 MLCC COG 1pF 50V +-0.25pF	CL05C010BB5NNNC	3	C70,C73,C75
			CL05C010CB5NNNC		
			GRM1555C1H1R0CA01D		
CAP3001		Cap 0402 MLCC COG 1.5pF 50V +-0.25pF/+0.1pF	CL05C1R5BB5NNNC	1	C77
			CL05C1R5CB5NNNC		
			GRM1555C1H1R5CA01D		
CAP3002		Cap 0402 MLCC COG 1.8pF 50V +-0.25pF/+0.1pF	CL05C1R8BB5NNNC	1	C76
			CL05C1R8CB5NNNC		
			GRM1555C1H1R8CA01D		
CAP3003		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		
CAP3004		Cap 0402 MLCC COG 220pF 50V 5%	CL05C221JB5NNNC	3	C83,C85,C86
			GRM1555C1H221JA01D		
CAP3005		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		
CAP3006		Cap 0402 MLCC COG 15pF 50V 1%	0402N150F500NU	4	C68,C69,C102,C104
			CL05C150FB5NNNC		
			GRM1555C1H150FA01D		
CAP3007		Cap 0402 MLCC COG/X7R 1nF 50V 5%	0402N102J500NU	4	C14,C20,C24,C27
			CL05B102JB5NNNC		
			CL05C102JB5NNNC		
			GRM1555C1H102FA01D		
CAP3008		Cap 0402 MLCC X7R 10nF 50V 5%	C0402C103J5RACTU	8	C15,C28,C114,C147,C179,C186,C187,C217
			CL05B103JB5NNNC		
CAP3009		Cap 0402 MLCC X7R 47nF 16V 5%	0402B473J160NU	12	C44,C99,C100,C101,C107,C108,C109,C112,C122,C138,C139,C140
			C0402C473J4RACTU		
			CL05B473JO5NNNC		
CAP3013		Cap 0402 MLCC X5R 1uF 10V 10%	CC0402B105K100	5	C8,C12,C23,C29,C146
			CL05A105KP5NNNC		
CAP3014		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
CAP3015		Cap 0402 MLCC X7R 220nF 10V 10%	CL05B224KP5NNNC	3	C9,C63,C125
CAP3019		Cap 0402 MLCC X7R 4.7nF 50V 10%	CL05B472KB5NNNC	7	C53,C56,C60,C79,C84,C93,C218
CAP3025		Cap 0402 MLCC COG 22pF 50V 5%	CL05C220JB5NNNC	1	C59
CAP3026		Cap 0402 MLCC COG 27pF 50V 5%	CL05C270JB5NNNC	1	C58
COI042		SMD Coil 120nH 10%	1008CS-121XJLC	1	L40
			1008CS-121XKBC		
			LCN1008T-R12K		
			LEM3225TR12M		
COI088		SMD High Q Coil Chip 1008 18nH 5%	1008HQ-18NXJLC	1	L33
COI089		SMD High Q Coil Chip 1008 56nH 5%	1008HQ-56NXJLC	1	L28
COI1000		SMD Coil Chip 0805 39nH 5%	0805CS-390XJLC	1	L38
COI1001		SMD Coil Chip 0805 33nH 5%	0805CS-330XGLC-2%	1	L39
			0805CS-330XJLC		
COI1009		SMD Coil Chip 0805 5.6nH 5%	0805CS-050XJLC	1	L32
COI101		SMD High Q Coil Chip 1008 47nH 5%	1008HQ-47NXJLB	1	L37
			1008HQ-47NXJLC		
COI104		SMD High Q Coil Chip 1008 100nH 5%	1008HQ-R10XJLC	1	L29
COI114		SMD Square Air Core Coil 1515SQ 47nH 5%	1515SQ-47NGEC	3	L34,L35,L36
			1515SQ-47NJEC		
COI116		SMD High Q Coil Chip 1008 33nH 5%	1008HQ-33NXGLC	1	L31
			1008HQ-33NXJLC		
COI2006		SMD Coil Chip 0603 82nH 5%	0603CS-82NXJLW	4	L17,L21,L22,L23
COI2007		SMD Coil Chip 0603 220nH 5%	0603CS-R22XJLW	1	L27

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COI2008		SMD Coil Chip 0603 47nH 5%	0603CS-47NXJLW	2	L25,L26
COI2012		SMD Coil Chip 0603 150nH 5%	0603CS-R15XJLW	1	L19
COI2015		SMD Coil Chip 0603 39nH 5%	0603CS-39NXJLW	1	L20
COI2021		SMD Coil Chip 0603 270nH 5%	0603CS-R27XGBC	2	L18,L30
			0603CS-R27XJLW		
COI3000		SMD Non-Magnetic Coil Chip 0402 1.2nH +/-0.3nH	LQG15HS1N2S02D	3	L12,L13,L16
COI3001		SMD Coil Chip 0402 2.7nH 2%	0402CS-2N7XGLW	1	L15
COI3002		SMD Coil Chip 0402 3.9nH 2%	0402CS-3N9XGLW	1	L14
CON110		SMD 2 pin Header Connector P=2mm, Gold Plated	2001MS-02GW-U	1	J5
			CI01-02M1VR0-LF		
			CI0102M2VR0-LF		
CON120		SMD 6 pin Header Connector P=2mm, Gold Plated	2001MS-06GW-U	1	J1
			WB2007US-06-G5-גליל		
CRY723		SMD Crystal 32.000MHz 10PPM, X20	8355HX16 32.000MHz	1	Y4
			8355HX16@32.000MHZ		
			9881X20 32.000 MHz		
CRY725		SMD Crystal 26.000MHz 2.0x1.6x0.45mm	9274X20 26M	1	Y3
			S2016A-026000F10ABPA		
CRY729		SMD Crystal 32.768KHz 10PPM, 12.5pF,3.2x1.5mm	SC-32S-12.5pF-10ppm	1	Y1
DIO022		ESD Protection SMD Diode, PESD24VS1UB, Package	PESD24VS1UB	7	D2,D3,D4,D5,D6,D7,D10
			PESD24VS1UB ,115		
			PESD24VS1UB,115		
DIO028		SMD Dual Hot Carrier Mixer Diode, MMBD352LT1G (	MMBD352LT1G	1	D13
DIO030		SMD PIN Diode for RF Switch, SMP1371-087LF, Pack	SMP1371-087LF	2	D16,D17
FBD002		Ferrite Bead SMD 1206	BLM31P500SPT	1	L11
			BLM31PG500SN1L		
			CIC31P500NE		
			CIC31P500NE/C		
			FBM3216HS800-T		
FBD005		Ferrite Bead SMD 0603 1K @100MHz	CIM10U102NC	7	L1,L2,L3,L4,L5,L6,L10
			SBK160808T-102Y-N		
ICS127		ICS SMD LC LP 2.4GHz RF Transceiver CC2500RTK	CC2500RGPR	1	U10
			CC2500RTKR		
ICS141		ICS SMD High Performance RF Transceiver, CC1120,	CC1120RHBR	1	U14
			CC1120RHBT		
			CC1120RHMR		
			CC1120RHMT		
ICS164		ICS SMD Bus Buffer/Line Driver, 74AHCT1G126, Pack	74AHCT1G126DCKR	6	U4,U5,U7,U11,U12,U13
			74AHCT1G126DCKRG4		
			74AHCT1G126SE-7		
			74HCT1G126GW		
			SN74AHCT1G126DCKRG		
ICS165		ICS PLQP0052 16-bit CMOS Microcontroller, R5F2125	R5F21258SNFP#V2	1	U6
ICS171		ICS SMD Analog Multiplexer, 74HCT4051, Package T	74HCT4051PW	1	U8
			M74HCT4051ADTR2G		
			M74HCT4051TTR		
ICS172		ICS SMD Buffer Gate with 3-State Output, SN74LVC1	74LVC1G126SE-7	1	U9
			NC7SZ126P5		
			NC7SZ126P5X		
			SN74LVC1G126DCKR		
LBL035		White Polyester 8 X8mm Label	113WP10	1	
			LBL035		
LBL045		White Polyester 6.35 x19.05mm Label	105WP10	1	
			LBL045		

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Cat.No.	Rev:	Description	Manuf. P/N	Qty	Location
LED1000		SMD Red Led 1.8mm Round	*42-21SURCS530A2TR8 4-21SURCS530A2TR8 42-21SURC/S530-A2TR 42-21SURCS530A2 42-21SURCS530A2TR8 KNR1209C2.4W XZMDK78W	2	D11,D12
PCB123	1.3	PCB for MT2W	PCB123	1	
REG1006		SMD Voltage Regulator, 5V, Stand-by Function, MCP1	MCP1804T-5002I/MT XC6216B502PR-G	1	U3
REG1013		SMD High Operat. Voltage Regulator, 3.3V, S-812C33	S-812C33AUA-C2NT2G S-812C33AUA-C2NT2U	1	U1
REG1018		SMD High Operating Voltage Regulator, 5.5V, S-812C	S-812C55BMC-C5JT2G	1	U2
RES012		Resistor SMD 1206 4.7 OHM 5%1\4W	RC3216J4R7CS	1	R26
RES1008		Res. Chip 0805 390 OHM 5% 1/8W	RC0805JR-07390R RC2012J391CS	1	R122
RES2008		Res Chip 0603 300 OHM 5% 1/10W	FCF03JT301 RC0603JR-07300RL RC1608J301CS	2	R120,R121
RES2012		Res Chip 0603 2.2K 5% 1/10W	RC0603JR-072K2 RC1608J222CS	2	R112,R117
RES2027		Res Chip 0603 0 OHM 5% 1/10W	CR-03JL7---0R FCF03JT000 RC0603JR-070R RC1608J000CS	3	R71,R75,L24
RES2041		Res Chip 0603 560 OHM 5% 1/10W	RC0603JR-07560RL RC1608J561CS	1	R118
RES2050		Res Chip 0603 18 Ohm 5% 1/10W	RC1608J180CS	1	R119
RES2051		Res Chip 0603 220 Ohm 5% 1/10W	RC1608J221CS	1	R116
RES2065		Res Chip 0603 3K 5% 1/10W	RC1608J302CS	1	R114
RES2074		Res Chip 0603 22 Ohm 5% 1/10W	RC0603JR-0722RL RC1608J220CS	1	R82
RES3000		Res Chip 0402 10K 5% 1/16W	RC0402JR-0710KL RC1005J103CS	9	R14,R24,R29,R45,R49,R123,R125, R126,R127
RES3001		Res Chip 0402 100K 5% 1/16W	RC0402JR-07100KL RC1005J104CS	11	R15,R16,R17,R22,R25,R27,R34,R47, R51,R57,R36
RES3002		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
RES3004		Res Chip 0402 0 Ohm 5% 1/16W	RC0402JR-070RL RC1005J000CS	4	R6,R7,R31,R41
RES3005		Res Chip 0402 4.7K 5% 1/16W	RC0402JR-074K7L RC1005J472CS	4	R35,R42,R44,R128
RES3008		Res Chip 0402 2K 5% 1/16W	RC0402JR-072KL	3	R43,R46,R113
RES3009		Res Chip 0402 2.7K 5% 1/16W	RC0402JR-072K7L	1	R33
RES3011		Res Chip 0402 56K 5% 1/16W	RC0402JR-0756KL	2	R59,R77
RES3013		Res Chip 0402 15 Ohm 5% 1/16W	RC0402JR-0715RL	6	R37,R38,R40,R55,R60,R63
RES3014		Res Chip 0402 51 Ohm 5% 1/16W	RC0402JR-0751RL	6	R3,R4,R5,R8,R9,R10
RES3018		Res Chip 0402 150 Ohm 1% 1/16W	RC0402FR-07150RL	1	R30
RES3021		Res Chip 0402 100 Ohm 5% 1/16W	RC0402JR-07100RL	1	R13
SWC1001		Pico Dry-reed Switch	FR-2024 FR2024 FRB-2024 MK23-66-B-2 RI-27SMD-10-15	1	SW1

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

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<u>Name:</u>		
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<u>Signature:</u>		