

**MPGL2-EHDW-02 Bill of Materials**

Internal Part Number	Description	Designator	Quantity
100118	BUMPON CYLINDRICAL 0.44" DIA BLK	Z4, Z5, Z6, Z7	4
100180	BUZZER PIEZO 4KHZ SMT	BZ1	1
100130	CAP CER 0.1uF 10% X5R 25V 0603 SMT	C1, C3, C8, C9, C10, C12, C13, C14, C15, C17, C18, C19, C20, C21, C22, C23, C32, C34, C39, C40, C52, C53, C54, C56, C57, C58, C59, C60, C61, C62, C63, C64, C66	33
100130	CAP CER 0.1uF 10% X5R 25V 0603 SMT	C46, C47, C48, C49, C50	5
100005	CAP CER 1.0PF 100V NP0 0603	C36, C37	2
100233	CAP CER 10pF 50V 1% NP0 0603	C26, C65	2
100006	CAP CER 10uF 10V X5R 0805	C2, C6, C7, C11, C16, C31, C51, C55	8
100007	CAP CER 12pF 50V 0603 SMD	C27, C28, C29, C30	2
100009	CAP CER 1uF 10% X5R 16V 0603 SMT	C4, C5, C41, C42, C43, C44, C45, C69, C70, C71, C72, C73	12
100241	CAP CER 2.2PF 250V NP0 0603	C35	1
100010	CAP CER 2200PF 50V X7R 0603	C33, C38	2
100011	CAP CER 33000PF 25V X7R 0603	C76, C77, C78, C79, C80, C81	6
100200	CAP CER 33PF 50V 5% NP0 0603	C24, C25, C67, C68	4
100019	CONN D-SUB RCPT R/A 9POS GOLD/FL	J5	1
100182	CONN RCPT STD MICRO USB TYPE AB	J1, J2	2
100031	CONN TERMINAL 12POS 0.100" RIGHT ANGLE	J3	1
100226	CRYSTAL 12.000000 MHZ SMD 18PF HC49	X1, X4	2
100035	CRYSTAL 16MHZ 8PF 3.2X2.5 SMD 0/70	X3	1
100037	CRYSTAL 32.768KHZ 7pF 3215 SMT	X2	1
100039	DIODE SCHOTTKY 1A 40V SOD123	D9	1
100040	DIODE SWITCHING 200mA 100V SOD123	D1, D2	2
100049	IC LDO REG 300MA ADJ-V SOT23-5	U5	1
100223	IC RF NRF51422 6x6 QFN48	U3	1
100271	IC TXRX RS232 ESD TRUE 16TSSOP	U7	1
100225	IC USB DUAL ESD PROTECT 6TSOP	U4	1
100240	INDUCTOR HI FREQ 10nH 2%	L3	1
100239	INDUCTOR HI FREQ 3.3nH +/-0.3nH	L1	1
100052	INDUCTOR HI FREQ 4.7+/-0.3nH	L2	1
100222	LCD COG GRAPH 128x64 TRANSFL	LCD1	1
100107	LED 0603 BLUE 470NM WTR CLR SMD	D8	1
100065	LED 0603 GREEN CLEAR SMD	D3, D7, D18	3
100067	LED 0603 RED CLEAR SMD	D4, D5, D17	3
100068	LED 0603 YELLOW CLEAR SMD	D6	1
100275	LED RGB PLCC4 TOP CLEAR	D13, D14, D15, D16	4
100224	MCU ATMEL SAM3U2 LQFP100	U1, U2	2
100220	MOSFET N-CH 20V 1A SOT323	Q2, Q3, Q6, Q7, Q8, Q11, Q12	7
100220	MOSFET N-CH 20V 1A SOT323	Q1, Q4, Q5, Q9, Q10, Q13	6
100235	PCB BARE MPG LEVEL 2 ATMEL	PCB	1
100075	RES 0.0 OHM 1/10W 1% 0603 SMD	R13, R47, R48, R56, R57, R62, R64	7
100076	RES 1.2K OHM 1/10W 1% 0603 SMD	R22, R23, R24, R25, R31, R35	6
100078	RES 100K OHM 1/10W 1% 0603 SMD	R2, R4, R5, R6, R33, R34	6
100079	RES 10K OHM 1/10W 1% 0603 SMD	R9, R17, R44, R45, R46, R52	6
100081	RES 150 OHM 1/10W 1% 0603 SMD	R15, R16, R26, R27, R28, R29, R30, R32, R36, R37, R38, R39, R40, R41, R49, R50, R51, R54	18
100084	RES 3.6K OHM 1/10W 5% 0603 SMD	R7, R8	2
100098	RES 390 OHM 1/10W 1% 0603	R1, R10, R18, R19, R20, R21, R58, R59	8
100228	RES 39R OHM 1/10W 1% 0603 SMD	R11, R12, R53, R55	4
100229	RES 6.80K OHM 1/10W 1% 0603 SMD	R14, R65	2
100087	RES 698K OHM 1/10W 1% 0603 SMD	R3	1
100227	STANDOFF 1206 MECHANICAL COMPONENT	C82, C83, C84, C85	4
100186	SWITCH SLIDE DPDT 6VDC 0.3A SMT	S7	1
100093	SWITCH TACT 260GF H=5.0MM SMT	S4, S5	2
100214	SWITCH TACTILE SPST-NO 0.05A 32V	S2	1