

Toba Magic FOUNTAIN (pond version) - BOM

Material description	QTY	Vendor	Manufacturer
ATMEGA88/V (IC) TQFP32 (MAIN)	1	POLAR STAR	ATMEL
M74HC165BIR (IC) Plastic DIP16	1	Arrow	SGS-THOMSON MICROELECTRONICS
SPN860018 (IC) 16-pin SOP	1	Tektall	MICREL INC.
UA7805CKC (IC) TO-220	1	Enterprise	TEXAS INSTRUMENTS INCOPRATED
2SB772 (Transistor) TO-126ECB	2	GOLDEN ELEC. CO.,LTD	UNISONIC TECHNOLOGIES CO.,LTD
2SD882 (Transistor) TO-126ECB	2	GOLDEN ELEC. CO.,LTD	UNISONIC TECHNOLOGIES CO.,LTD
BFG425W (Transistor) SOT343R	1	Mobicon	PHILIPS SEMICONDUCTORS
IRFZ46N (MOSFET) TO-220AB	1	Arrow	INTERNATIONAL RECTIFIER
IRL2703 (MOSFET) TO-220AB	4	Arrow	INTERNATIONAL RECTIFIER
8 MHz (Crystal) HC-49S	1	TOP LEADER ENTERPRISES LIMITED	TOP LEADER ENTERPRISES LIMITED
NKG 6.7458 MHz (Crystal) HC-49S	1	CHENGDU BENYUE TECHNOLOGY CO.,LTD	
GMEF433.92 MHz (FILTER) F-11	1	DONGGUANSHI JINGMEI ELECTRONICS TECHNOLOGY CO.,LTD.	
EMI SUPPRESSOR ~RH TYPE RH 12X20X6	1	CEC	COILS ELECTRONIC CO.,LTD.
EMI SUPPRESSOR ~RH TYPE RH 31X22.5X19	2	CEC	COILS ELECTRONIC CO.,LTD.
Tactswitch TC-12ET	3	CHUN KAI ELECTRONIC SWITCHES CO.,LTD	
8bit switch DJ(R)-08	1	DINBO LIMITED	DIPTRONICS MANUFACTOR INC.
PTC 0.9A , 30V DIP CUF090 C-2006WH001	1	KEN TECHNOLOGY DEVELOPMENT (H.K.)LIMITED	
Littel FUSE(20A,32V) 257020	1	GROUP LEADER (HONG KONG) LTD.	
FUSE HOLDER(JEF-703F)	1		
INFARED EMITTING IE-0318HL	1	WAITRONY CO.,LTD	
PHOTO TRANSISTOR WPTS-332D	1		
BI-LED(Gr.&Red)W05388GRSC-I-SF	1		
RES 0.02 OHM 3W +/-1% DIP	1	TTI	WIREWOUND AND FILM TECHNOLOGIES DIVISION
RES 8.2 OHM 1/4W +/-5% DIP	1	HONG KONG RESISTOR MANUFACTORY	
MMZ1608S601A SMD 0603	1	Manifold	TDK
56nH (INDUCTOR) SMD 0603 , 5%	1	YOTO ELECTRONICS LTD.	
27nH (INDUCTOR) SMD 0603 , 5%	2		
82nH (INDUCTOR) SMD 0603 ,10%	1		

10uH (INDUCTOR) DIP YOTO +/-10% ,Q=100	1		
1uH (INDUCTOR) DIP YOTO +/-10% ,Q=40	1		
DOW CORNING1-2577	0.026	ELLSWORTH ADHESIVES ASIA LTD.	DOW CORNING CORPORATION
XYLENE	0.0046	HANG CHEUNG COATING (HUI YANG)	
RES 0 OHM SMD 0805 1/10W +/-5%	3	GUANG DONG FENG HUA ADVANCED TECHNOLOGY (HOLDING)CO.,LTD.	
RES 100K OHM SMD 0603 1/16W +/-5%	9		
SMD 0603 NPO C.CAP 100pF 25V +/-5%	1		
SMD 0630 X7R C.CAP 0.1uF 50V +/-10%	14		
RES 10K OHM SMD 0603 1/16W +/-5%	9		
E.CAP 10 uF 16V +/-20% DIA 4MMX7A	3		
SMD 0603 NPO C.CAP 22pF 25V +/-5%	2		
RES 20K OHM SMD 0603 1/16W +/-5%	7		
RES 4.7K OHM SMD 0603 1/16W +/-5%	7		
RES 2.4K OHM SMD 0805 1/10W +/-5%	1		
RES 10 OHM SMD 0805 1/10W +/-1%	1		
RES 100 OHM SMD 0805 1/10W +/-1%	4		
8050D (Transistor) SOT-23S	8	GOLDEN ELEC. CO.,LTD	UNISONIC TECHNOLOGIES CO.,LTD
8550D (Transistor) SOT-23S	1		
RES 510 OHM DIP 1/4W +/-5%	2	HONG KONG RESISTOR MANUFACTORY	
E.CAP 1000 uF 10V +/-20% DIA 8X14MM	2	HONG KONG AI HUA	YIYANG ZIJIANG ELECTRONIC ELEMENTS CO.,LTD
C.CAP 0.1 uF 50V DIP	1	GUANG DONG FENG HUA ADVANCED TECHNOLOGY (HOLDING)CO.,LTD.	
E.CAP 2200 uF 25V +/-20% 13X20MM	3	HONG KONG AI HUA	YIYANG ZIJIANG ELECTRONIC ELEMENTS CO.,LTD
RES 1K OHM SMD 0805 1/10W +/-1%	6	GUANG DONG FENG HUA ADVANCED TECHNOLOGY (HOLDING)CO.,LTD.	
E.CAP 4.7uF 50V +/-20% 5X11MM	2	HONG KONG AI HUA	YIYANG ZIJIANG ELECTRONIC ELEMENTS CO.,LTD
RES 5.1K OHM SMD 0603 1/16W +/-1%	1	GUANG DONG FENG HUA ADVANCED TECHNOLOGY (HOLDING)CO.,LTD.	
RES 510 OHM SMD 0805 1/10W +/-5%	2		
8550D (Transistor) TO-92EBC	1	CHANG JIANG ELECTRONIC CO.,LTD	
RES 91K OHM SMD 0603 1/16W +/-1%	1	GUANG DONG FENG HUA ADVANCED TECHNOLOGY (HOLDING)CO.,LTD.	
IN4001 (DIODE) DIP 1A 50V BUTTET TAPE	5		COS
1N5401 (DIODE) SILICON 3A 100V RECTRON	1	DC COMPONENTS CO.LTD.	

FDLL4148 (DIODE) SMDVRMM 100v LL34	2	ENTERPRISE ELECTRONIC COMPONENT CO.,LTD	FAIRCHILD SEMICONDUCTOR CORPORATION
RES 1.2K OHM SMD 0603 1/16W +/-5%	1	GUANG DONG FENG HUA ADVANCED TECHNOLOGY (HOLDING)CO.,LTD.	
RES 560 OHM SMD 0603 1/16W +/-5%	1		
TAN.CAP 1 uF SMD ASize	2	DINBO LIMITED	
SMD 0603 NPO 5pF 25V +/-5%	1	GUANG DONG FENG HUA ADVANCED TECHNOLOGY (HOLDING)CO.,LTD.	
SMD 0603 NPO 5.6pF 25V +/-5%	1		
MAIN PCB FR4 1.6 mm	1	SKYTEC (HONG KONG) LTD.	
RECEIVER PCB FR4 1.0 mm	1	CALI-TECH ELECTRONICS CO.,LTD.	
KEY PCB FR4 1.6 mm	1		
FUSE PCB FR4 2.0 mm	1		
RES 120 OHM SMD 0805 1/10W +/-5%	2	GUANG DONG FENG HUA ADVANCED TECHNOLOGY (HOLDING)CO.,LTD.	
RES 4.7K OHM SMD 0805 1/10W +/-5%	1		
SOLDER WIRE TIN , 01 DIA 1.0MM 63/37		AOKI	AOKI
SOLDER BAR TIN 63/37		AOKI	AOKI
SOLDER PASTE TAMURA-10-61A(MI)		AOKI (TRMURA RMA-10-61A)	
4pin header2.0(photo/RF)	2	GUANGZHOU WEIDIDA ELECTRON CO.,LTD.	
2pin header2.0(Servo/LED)	2		
6pin header2.0(key)	1		
2X2pin header2.0(Code)	1		
2X3pin header2.0(Code)	1		
6pin Socket(key)	1		
4pin Socket(photo)	1		
3pin Socket(RF)	1		
2pin Socket(Servo)	1		
9pin Socket(Code)	1		
5pin socket(LAMP)	1	ZHEJIANG YUEQING XINYA RADIO FACTORY ZHE JIANG HEAD ELECTRONICS CO.,LTD. SHENZHEN QIAOYUN ELECTRON CO.,LTD	Shen zhen Qiao yun Electronics CO.,LTD.
5pin header3.96mm(LAMP)	1	ZHE JIANG HEAD ELECTRONICS CO.,LTD. SHENZHEN QIAOYUN ELECTRON CO.,LTD	Shen zhen Qiao yun Electronics CO.,LTD.
250 BLADE header	4	TYCO ELECTRONICS CORP.	Shen zhen Qiao yun Electronics CO.,LTD.
187 BLADE header	2	TYCO ELECTRONICS CORP.	Shen zhen Qiao yun Electronics CO.,LTD.

1pin socket(Brown power+) 14AWG	1	ZHEJIANG YUEQING XINYA RADIO FACTORY TYCO ELECTRONICS CORP. FOSHAN FANGPU PVC DIPPING CO.,LTD	Shen zhen Qiao yun Electronics CO.,LTD.
1pin socket(Black power-) 14AWG	1	ZHEJIANG YUEQING XINYA RADIO FACTORY TYCO ELECTRONICS CORP. FOSHAN FANGPU PVC DIPPING CO.,LTD	Shen zhen Qiao yun Electronics CO.,LTD.
1pin socket(Red Fuse+) 14AWG	1	ZHEJIANG YUEQING XINYA RADIO FACTORY TYCO ELECTRONICS CORP. FOSHAN FANGPU PVC DIPPING CO.,LTD	Shen zhen Qiao yun Electronics CO.,LTD.
1pin socket(Brown Fuse-)14AWG	1	ZHEJIANG YUEQING XINYA RADIO FACTORY TYCO ELECTRONICS CORP. FOSHAN FANGPU PVC DIPPING CO.,LTD	Shen zhen Qiao yun Electronics CO.,LTD.
1pin socket(Brown pump+)18AWG	1	ZHEJIANG YUEQING XINYA RADIO FACTORY TYCO ELECTRONICS CORP. FOSHAN FANGPU PVC DIPPING CO.,LTD	Shen zhen Qiao yun Electronics CO.,LTD.
1pin socket(Black pump-)18AWG	1	ZHEJIANG YUEQING XINYA RADIO FACTORY TYCO ELECTRONICS CORP. FOSHAN FANGPU PVC DIPPING CO.,LTD	Shen zhen Qiao yun Electronics CO.,LTD.
Antenna(RX) UL 18AWG(white) 180mm	1	ZHEJIANG YUEQING XINYA RADIO FACTORY	Shen zhen Qiao yun Electronics CO.,LTD.
2X5pin connector2.54	1	Shen zhen Qiao yun Electronics CO.,LTD.	
SMD 0630 X7R C.CAP 1000pF 50V +/-10%	15	GUANG DONG FENG HUA ADVANCED TECHNOLOGY (HOLDING)CO.,LTD.	
SMD 0603 NPO C.CAP 30pF 25V +/-5%	1	GUANG DONG FENG HUA ADVANCED TECHNOLOGY (HOLDING)CO.,LTD.	
SHRINKAGE TUBE L=20mm D.=5.0mm	2	SHENZHEN CHANGYUAN ELECTRONIC MATERIAL CO.,LTD.	
SHRINKAGE TUBE L=20mm D.=3.0mm	2		
HEAT SHRINK L=10mm D.=1.5mm	4		