

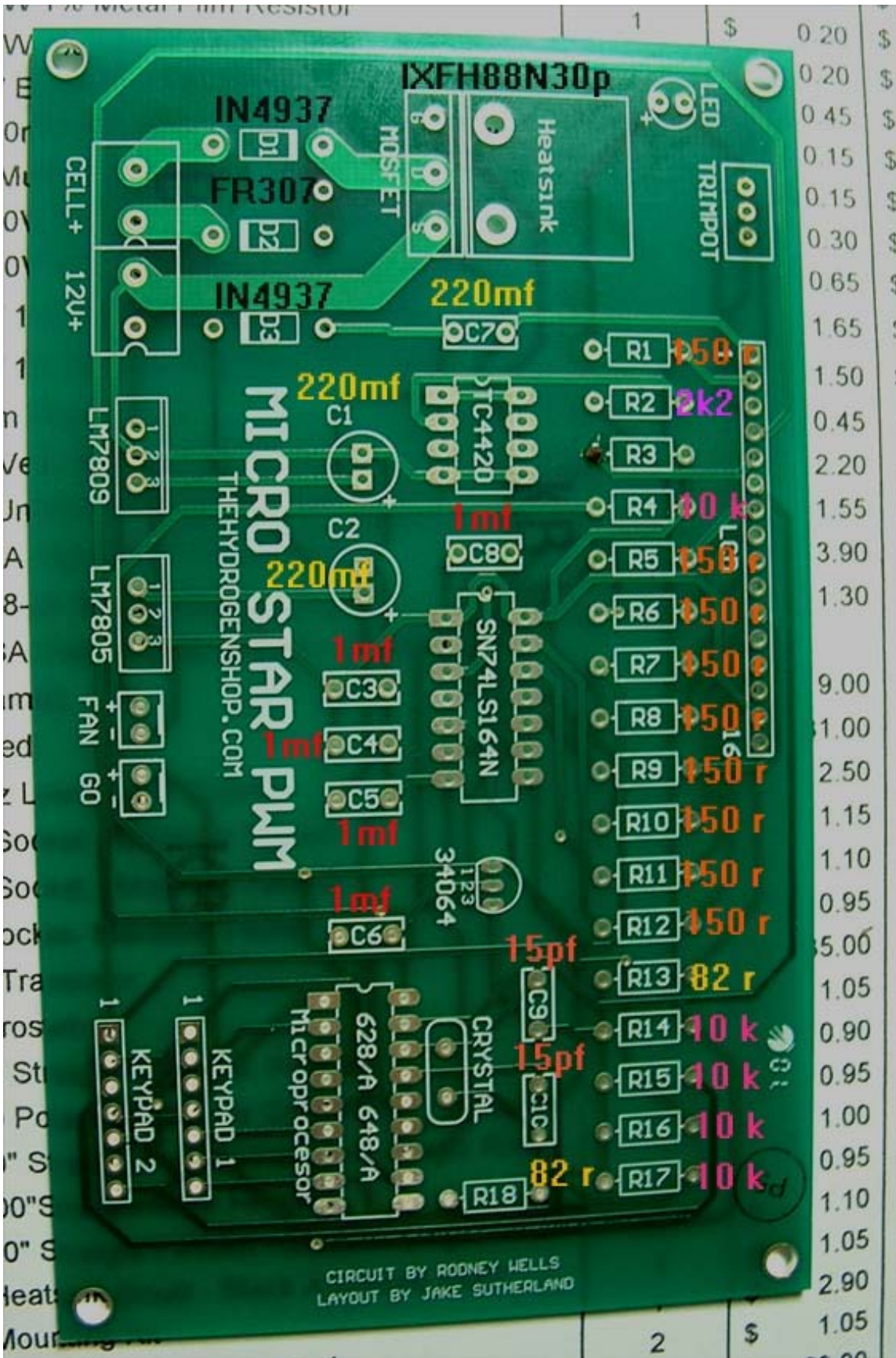
MICRO STAR PARTS LIST

	Micro Star PWM					Click on a component for Data Sheet
Part Number	Part Description	Amount	Cost Per	Total	Map	
			Unit	Cost	No.	
7809T	7809T - 9V 1A Positive Regulator (LM7809)	1	\$ 1.65	\$ 1.65	IC5	
7805T	7805T - 5V 1A Positive Regulator (LM7805)	1	\$ 1.50	\$ 1.50	IC6	
TC4420CPA	TC4420CPA Highspeed Mosfet Driver	1	\$ 3.90	\$ 3.90	IC3	
MC34064P-5	MC34064 Undervoltage Sensing Circuit	1	\$ 2.55	\$ 2.55	IC4	
74LS164	74LS164 - 8-bit Serial Shift Register	1	\$ 1.30	\$ 1.30	IC2	
PIC16F648A-I/P	PIC16F648A Flash 18-pin 4kB Microcontroller PROGRAMMED		\$ 39.90	\$ 39.90	IC1	
PIC16F648A-I/P	Unprogrammed	1	\$ 9.90	\$ 9.00	IC1	

BLUELCD16X2BL	16 x 2 Blue Character LCD Display with Backlight	1	\$ 29.00	\$ 29.00	LCD	
KEYPADSM	Small Keypad Optional	1	\$ 7.70	\$ 7.70	Keypad1	
P-7810, SP0770	Keypad 2	1	\$ 8.10	\$ 8.10	Keypad2	
1N4937	1N4937 600V 1A Fast Recovery Diode	1	\$ 0.30	\$ 0.30	D3	
LED5PU	Purple 5mm Round LED	1	\$ 0.45	\$ 0.45	LED1	
C100UMC	1uF 50V Multilayer Ceramic Capacitor	5	\$ 0.15	\$ 0.90	C3 C4 C6 C5 C8	
C015PMC	15pF 50V Multilayer Ceramic Capacitor	2	\$ 0.15	\$ 0.30	C9,C10	
C220U25E	220uF 25V Electrolytic Capacitor	3	\$ 0.45	\$ 0.90	C1, C2 C7	
R150RMF	150ohm 1/4/W 1% Metal Film Resistor	9	\$ 0.20	\$ 1.80	R1,	
	150ohm 1/4/W 1% Metal Film Resistor				R5-R12	

R0022KMF	2.2kohm 1/4W 1% Metal Film Resistor	2	\$ 0.20	\$ 0.40	R2, R3	
R010KMF	10kohm 1/4W 1% Metal Film Resistor	5	\$ 0.20	\$ 1.00	R4, R14-17	
R082RMF	82ohm 1/4W 1% Metal Film Resistor	1	\$ 0.20	\$ 0.20	R13,18	
CRYLF20M000	20.000MHz Low Profile Crystal	1	\$ 1.60	\$ 1.60	XT	
CERM10K	10K 1/2W Vert. Square Cermet Pot	1	\$ 2.20	\$ 2.20	VR1	
ICS18MT	18 Pin IC Socket - Machine Tooled	1	\$ 1.15	\$ 1.15	Socket1	
ICS14MT	14 Pin IC Socket - Machine Tooled	1	\$ 1.10	\$ 1.10	Socket2	
ICS8MT	8 Pin IC Socket- Machine Tooled	1	\$ 0.95	\$ 0.95	Socket3	
POLHDCON2	2 Pin .100 Polarized Header	1	\$ 1.95	\$ 1.90	POL1,2	
PCBT2	2 Term. PCB 5mm Terminal Block	1	\$ 210	\$ 2.10	TB1	

HEADS20	20 Pin .100" Straight Male Headers	2	\$.95	1.90		
FHEADS16	FHEADS16 - 16 Pin .100" Straight Female Headers - Single Row	2	\$1.10	\$2.20		
FHEADS8	FHEADS8 - 8 Pin .100" Straight Female Headers - Single Row	2	\$1.00	\$2.00		
MicroStar	PCB	1				
Micro Star Kit	Total					



MICRO STAR PWM
 THEHYDROGENSHOP.COM

CIRCUIT BY RODNEY HELLS
 LAYOUT BY JAKE SUTHERLAND

- R1 50
- R2 2k2
- R3
- R4 10k
- R5 50
- R6 50
- R7 50
- R8 50
- R9 50 r
- R10 50 r
- R11 50 r
- R12 50 r
- R13 82 r
- R14 10k
- R15 10k
- R16 10k
- R17 10k
- R18 82 r

1	\$	0.20	\$
		0.20	\$
		0.45	\$
		0.15	\$
		0.15	\$
		0.30	\$
		0.65	\$
		1.65	\$
		1.50	\$
		0.45	\$
		2.20	\$
		1.55	\$
		3.90	\$
		1.30	\$
		9.00	\$
		1.00	\$
		2.50	\$
		1.15	\$
		1.10	\$
		0.95	\$
		5.00	\$
		1.05	\$
		0.90	\$
		0.95	\$
		1.00	\$
		0.95	\$
		1.10	\$
		1.05	\$
		2.90	\$
2	\$	1.05	\$
		0.20	\$