

Qty	Parts	Value	Description
	2 SJ1, SJ2	-	Solder Jumper - See PCB for details
	7 C1, C3, C5, C9, C10, C11, C15	100nF	100nF Ceramic Capacitor, 50V, 2.54mm pitch
	3 C2, C4, C12	100uF	100uF Alu Electrolytic Capacitor, 25V, Dia 6.3mm
	4 C7, C8, C13, C14	22pF	22pF Ceramic Capacitor, 2.54mm pitch
	1 D1	MBR1060	TO-220 Schottky Diode, 10A
	1 ST4	RJ11-6	RJ11 JACK, 6/6 LOW PROFILE
	2 DEC, RA	RJ11-4	RJ11 JACK, 6/4 LOW PROFILE
	1 HAMMOND-1593N	HAMMOND-1593N	CASE, ABS, HANDHELD, BLACK, 111X75X25MM
	1 IC1	ATMEGA162-16PU	IC, ATMEGA162-16PU, DIP40
	1 IC1	DIP40 Socket	40Way DIP IC Socket, 0.3" Pitch
	1 IC2	PIC18F14K50-I/P	IC, PIC18F14K50-I/P, PDIP20
	1 IC2	DIP20 Socket	40Way DIP IC Socket, 0.6" Pitch
	1 IC3	78L05	5V 100mA Voltage Regulator, TO-92
	1 J1	MJ-179PH	DC Barrel Jack Socket, PCB Mount
	2 M1, M2	Motor Driver Socket	RECEPTACLE, 2.54MM, SINGLE, 16WAY
	1 PROG	2x3 Header	2ROW, 6WAY, 2.54mm Pitch Header
	6 R13, R14, R15, R16, R19, R21	1kR	1k Resistor, 1/4W, 5%
	1 USB->	Mini USB Connector	MINI USB RECEPTACLE, THT, R/A
	1 X2	12MHz XTAL	XTAL, 12.000MHZ, 18PF, HC-49S
	3 R1, R18, R20	10kR	10k Resistor, 1/4W, 5%
	3 PWR, STAT, USB	3mm LED Red	Flat Top Red LED, 3mm
	1 X1	16MHz XTAL	XTAL, 16.000MHZ, 18PF, HC-49S
	1 D2	1N4148	DIODE, 100V,150MA, DO-35
	1 C6	470nF	470nF Ceramic Capacitor, 50V, 2.54mm pitch
	1 R22	120R	120R Resistor, 1/4W, 5%
	1 Q1	BS270	MOSFET TRANSISTOR, N CHANNEL, BS270
	1 PWM	3.5mm JACK	PHONE AUDIO CONNECTOR, JACK, 3.5MM
1 Pack	-	Mounting PCB to Case	WASHER, FLAT, NYLON, M2.5, PK50
1 Pack	-	Mounting PCB to Case	SCREW, POZI PAN, STEEL, BZP, M2.5X6

Manufacturer	Part Number	Farnell Code
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MULTICOMP	MCRR25104X7RK0050	1216438
MULTICOMP	MCGPR25V107M6.3X11	9451188
AVX	SR151A220JAR	1100369
MULTICOMP	MBR1060	1625119
MOLEX	95501-2661	1536490
MOLEX	95501-2641	1560166
HAMMOND	1593NBK	9287566
ATMEL	ATMEGA162-16PU	9171169
MULTICOMP	2227-20-03-07	4285608
MICROCHIP	PIC18F14K50-I/P	1648501
MULTICOMP	2227-40-06-05	4285669
FAIRCHILD SEMICONDUCTOR	LM78L05ACZX	1467367
MULTICOMP	MJ-179PH	1737246
SAMTEC	CES-116-01-T-S	1667522
TE CONNECTIVITY / AMP	826632-3	3418492
MULTICOMP	MF12 1K	9342400
MOLEX	565790519	1125347
TXC	9B-12.000MAAJ-B	1842203
MULTICOMP	MF12 10K	9342419
KINGBRIGHT	L-424HDT	1142499
TXC	9B-16.000MEEJ-B	1842217
MULTICOMP	1N4148	9565124
KEMET	C320C474M5U5TA	1457660
MULTICOMP	MF12 120R	9342516
FAIRCHILD SEMICONDUCTOR	BS270	1017689
CLIFF ELECTRONIC COMPONENTS	FC68131	2518188
DURATOOL	110764	7047472
TR FASTENINGS	M2.56 PRSTTTZ100	1420119