

PCB BILL OF MATERIAL								
PART#	VALUE	DESCRIPTION	QTY	PRICE	TOTAL	PART #	SOURCE	NOTE
C1	10uF	Multilayer Ceramic Capacitors MLCC - SMD/SMT 10uF 10% 10Volts	1	\$0.19	\$0.19	C2012X5R1A106K125AB	www.mouser.com	TDK
C2, C5	0.1uf	Multilayer Ceramic Capacitors MLCC - SMD/SMT .1uF 25volts X7R 20%	2	\$0.06	\$0.12	77-VJ0805Y104MXXAC	www.mouser.com	Vishay
C3, C4	1uf	Multilayer Ceramic Capacitors MLCC - SMD/SMT 0805 1uF 10volts X7R 10%	2	\$0.05	\$0.10	77-VJ0805Y105KXQTBC	www.mouser.com	Vishay
LED		Standard LEDs - Through Hole Red Round LED	1	\$0.15	\$0.15	941-C503BRBNCW0Z0AA1	www.mouser.com	Cree, Inc.
LED1		Standard LEDs - SMD Super Red, 633nm 180mcd, 20mA	1	\$0.10	\$0.10	720-LSR976-NR-1	www.mouser.com	Osram Opto Semiconductor
R3	150	Thick Film Resistors - SMD 1/8watt 150ohms 1% 100ppm	1	\$0.08	\$0.08	71-CRCW0805-150-E3	www.mouser.com	Vishay
R2	1k	Thick Film Resistors - SMD 1/8watt 1Kohms 1% 100ppm	1	\$0.08	\$0.08	71-CRCW0805-1.0K-E3	www.mouser.com	Vishay
R1	300	Thick Film Resistors - SMD 1/8watt 300ohms 5%	1	\$0.08	\$0.08	71-CRCW0805300RJNEA	www.mouser.com	Vishay
S1		Tactile Switches Switch Light Touch 6mm Square SMD	1	\$0.39	\$0.39	667-EVQ-Q2F03W	www.mouser.com	Panasonic
U\$1	MC9S08SG8CTG	8-bit Microcontrollers - MCU UC W/ 8K 0.25UM SGF	1	\$2.12	\$2.12	841-S9S08SG8E2CTG	www.mouser.com	Freescale Semiconductor
U\$2	BIG_TSL1401CL	Sensor Array 400dpi 128 pixel	1	\$6.34	\$6.34	856-TSL1401CL	www.mouser.com	ams
		Screws & Fasteners 1/2 2-56 STEEL PAN	4	\$0.16	\$0.64	534-9356	www.mouser.com	Keystone Electronics
JP2		Fixed Terminal Blocks 3P SIDE ENTRY 2.54mm	1	\$1.83	\$1.83	282834-3	www.mouser.com	
JP1		Fixed Terminal Blocks 2P SIDE ENTRY 2.54mm	1	\$0.59	\$0.59	282834-2	www.mouser.com	
		PC Board (Quantities of 10)	1	\$1.52	\$1.52		www.seeedstudio.co	See note in wiring diagram
		Drill Rod, O-1, Material: Tool Steel; Diameter: 0.0630; Diameter (Inch): 1/16; , length 3 in.	1	\$0.08	\$0.08		www.use-enco.com	Sold in 36 in lengths
TOTAL COST excluding shipping, wires & supplies					\$14.41			

PC Board Specs
Fusion PCB Service - 2 layers, PCB Thickness - 1.6mm
PCB Dimension - 5cm Max*5cm Max
Surface Finish - Hasl
PCB Color - Green
E-Test - 100% E-test(Free)
Ordered in quantities of 10.