

# Bill Of Materials for cosfilcdsch

**Design Title** cosfilcdsch  
**Author**  
**Document Number**  
**Revision**  
**Design Created**  
**Design Last Modified**  
**Total Parts In Design**

## 0 Modules

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">Stock Code</a>	<a href="#">Description</a>
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Sub-totals:

## 9 Capacitors

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">Stock Code</a>	<a href="#">Description</a>
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2	C1,C9	10u	Farnell	10u 16V 28mA Miniture Electrolytic Capacitor
1	C2	220u	Farnell	220u 16V 28mA Miniture Electrolytic Capacitor
2	C3,C8	47u	Farnell	47u 16V 28mA Miniture Electrolytic Capacitor
4	C4-C7	0.47u	Farnell 2320881	SMD Multilayer Ceramic Capacitor, 1206

Sub-totals:

## 14 Resistors

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">Stock Code</a>	<a href="#">Description</a>
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1	R1	22K	Farnell 2434183	Through Hole Resistor, 10 kohm 250mW, ± 5%
1	R2	100K	Farnell 1900114	Through Hole Resistor, 100 kohm, ROX Series, 3 W, ± 5%, Axial Leaded, 350 V
2	R3,R10	10K	Farnell 2434183	Through Hole Resistor, 10 kohm 250mW, ± 5%
1	R4	680R	Farnell 1127004	METAL FILM RESISTOR, 680 OHM, 250mW, 1%
1	R5	1K	Farnell 1083251	Through Hole Resistor, 1 kohm, R Series, 250 mW, ± 0.1%
2	R6-R7	1K	Farnell 1083251	Through Hole Resistor, 1 kohm, R Series, 250 mW, ± 0.1%
1	R8	1K	Farnell 2434183	Through Hole Resistor, 10 kohm 250mW, ± 5%
1	R9	3K3	Farnell 2434183	Through Hole Resistor, 10 kohm 250mW, ± 5%
1	R11	33K	Farnell 1128023	CARBON FILM RESISTOR, 33KOHM, 250mW, 5%
1	R12	10K	Farnell 9339060	Through Hole Resistor, 10 kohm 250mW, ± 5%
2	R13-R14	6K8	Farnell 1129161	CARBON FILM RESISTOR, 6.8KOHM, 250mW 5%

Sub-totals:

## 6 Integrated Circuits

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">Stock Code</a>	<a href="#">Description</a>
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1	U1	ATMEGA8		8 KBytes Flash, 1088 Bytes SRAM, 512 Bytes EEPROM, ADC, Analog Comparator, TWI, SPI, 3 Ports, 3 Timers, 1 USART
1	U2	7805		5V Fixed 1A Positive Power Supply Regulator.
2	U3,U7	LM193	Farnell 2294230	Analogue Comparator, Dual, Differential, 2 Comparators, 300 ns, 2V to 36V, DIP, 8 Pins

1	U4	PC817A	Farnell 1244544	Optocoupler, Transistor Output, 1 Channel, DIP, 4 Pins, 50 mA
1	U5	ACS755XCB-050	Farnell 1791392	Fully Integrated, Hall Effect-Based Linear Current Sensor with High Voltage Isolation and a Low-Resistance Current Conductor.

Sub-totals:

## 2 Transistors

Quantity	References	Value	Stock Code	Description
1	Q1	BC337	Farnell 2453779	Silicon NPN Low Power High Frequency Bipolar Transistor (625mW, 150eC)
1	Q2	2N5193	Farnell 4719815	BIPOlar TRANSISTOR, PNP, -40V 1A

Sub-totals:

## 14 Diodes

Quantity	References	Value	Stock Code	Description
6	D1,D7,D10-D13	1N4007	Farnell 9549129	Si; 1.00kV 1.00A 3.00us
7	D2-D6,D8-D9	1N4148	Farnell 9843680	Small Signal Diode, Single, 100 V, 200 mA, 1 V
1	D17	1N4007		Si; 1.00kV 1.00A 3.00us

Sub-totals:

## 9 Miscellaneous

Quantity	References	Value	Stock Code	Description
1	BUZ1	ABT-414-RC	Farnell 2098836	Transducer, 3 V to 8 V, 85 dB, Sounder, 40 mA
1	J1	TBLOCK-M3		Metric pitch terminal block
1	LCD1	MC21605C6W-SPR-V2	Farnell 2675590	16x2 Alphanumeric LCD
1	RL1	5V	Farnell 2311438	Relay, Power, SPDT, 5 VDC, 10 A
3	RV1-RV3	10k	Farnell 9355030	Trimmer Potentiometer, 10 kohm, 1 Turns, Through Hole
1	RV4	33K	Farnell 2328532	Trimmer Potentiometer, 30 kohm, 1 Turns, Through Hole
1	TR1	TRAN-2P2S	Farnell 1689081	Isolation Transformer, EI 42 x 14.8, 5 VA, 12V, 417 mA, 1 x 230V, PCB MOUNTED

Sub-totals:

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Totals: