

Bill Of Materials for cosfiUlsch

Design Title cosfiUlsch
Author
Document Number
Revision
Design Created
Design Last Modified
Total Parts In Design 98

0 Modules

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Description</u>
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Sub-totals:

14 Capacitors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Description</u>
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2	C1,C14	47u	Famell 2508125	Electrolytic Capacitor, Low ESR, 47 µF, 25 V,
9	C2-C7,C10-C11, C13	0.47u	Famell 2320881	SMD Multilayer Ceramic Capacitor, 1206
3	C8-C9,C12	10u	Famell 1902913	Electrolytic Capacitor, 10 µF, 25 V, MCRH Series, ± 20%, Radial Leaded, 5 mm

Sub-totals:

33 Resistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Description</u>
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10	R1,R9,R12, R14,R16,R18, R24,R31-R33	12K	Famell 9341234	Through Hole Resistor, 12 kohm, MF25 Series, 250 mW, ± 1%, Axial Leaded, 250 V
1	R2	100K	Famell 1900114	Through Hole Resistor, 100 kohm, ROX Series, 3 W, ± 5%, Axial Leaded, 350 V
2	R3,R10	10K	Famell 2434183	Through Hole Resistor, 10 kohm 250mW, ± 5%
1	R4	680R	Famell 1127004	METAL FILM RESISTOR, 680 OHM, 250mW, 1%
1	R5	1K	Famel 1083251	Through Hole Resistor, 1 kohm, R Series, 250 mW, ± 0.1%
2	R6-R7	1K	Famel 1083251	Through Hole Resistor, 1 kohm, R Series, 250 mW, ± 0.1%
1	R8	1K	Famell 1083251	Through Hole Resistor, 1 kohm 250mW, ± 5%
6	R11,R13,R15, R17,R23,R25	24K	Famell 9341609	Through Hole Resistor, 24 kohm, MF25 Series, 250 mW, ± 1%, Axial Leaded, 250 V
1	R19	33K	Famell 1128023	CARBON FILM RESISTOR, 33KOHM, 250mW, 5%
1	R20	10K	Famell 9339060	Through Hole Resistor, 10 kohm 250mW, ± 5%
2	R21-R22	6K8	Famel 1129161	CARBON FILM RESISTOR, 6.8KOHM, 250mW 5%
1	R26	47K	Famell 9339558	Through Hole Resistor, 47 kohm 250mW, ± 5%
4	R27-R30	1K	Famell 9341102	Through Hole Resistor, 1 kohm 250mW, ± 5%

Sub-totals:

12 Integrated Circuits

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Description</u>
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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	IRM-05-5	Famell 2815493	AC/DC PCB Mount Power Supply (PSU), ITE, 1 Output, 5 W, 5 V, 1 A

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
3	U5,U9,U11	ACS755XCB-050	Farnell 1791392	Fully Integrated, Hall Effect-Based Linear Current Sensor with High Voltage Isolation and a Low-Resistance Current Conductor.
3	U6,U8,U10	LM6132A	Farnell1150284	Dual Low Power 10 MHz Rail-to-Rail I/O Operational Amplifier
1	U12	IA0512S	Farnell 8727503	Isolated Board Mount DC/DC Converter, 2 Output, 1 W, 12 V, 42 mA, -12 V, 42 mA

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:

22 Diodes

Quantity	References	Value	Stock Code	Description
3	D1,D7,D17	1N4007	Farnell 9549129	Si; 1.00kV 1.00A 3.00us
9	D2-D6,D8-D9, D12,D14	1N4148	Farnell 9843680	Small Signal Diode, Single, 100 V, 200 mA, 1 V
6	D10-D11,D13, D21-D23	BAT54S	Farnell 2677691	Small Signal Schottky Diode, Dual Series, 30 V, 200 mA, 1 V, 600 mA,
4	D16,D18-D20	LED-RED	Farnell 1003232	LED, Red, Through Hole, T-1 3/4 (5mm), 2 mA, 1.7 V

Sub-totals:

15 Miscellaneous

Quantity	References	Value	Stock Code	Description
1	BOX1	MC001145	Farnell 2544976	Plastic Enclosure, DIN Rail, ABS, Polycarbonate, 90.2 mm, 159.5 mm, 57.5 mm
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
5	RV1-RV2,RV5, RV7-RV8	10k	Farnell 9355030	Trimmer Potentiometer, 10 kohm, 1 Turns, Through Hole
1	RV4	33K	Farnell 2328532	Trimmer Potentiometer, 30 kohm, 1 Turns, Through Hole
2	RV10-RV11	PTV09A-4225F-B103	Farnell 2663537	Rotary Potentiometer, 10 kohm, 1 Turns, Linear, 50 mW, $\pm 20\%$, PTV09A Series
1	SW1	MC8MSLP1B06VS2QES	Farnell 2008743	Pushbutton Switch, On-On, SPDT
1	SW2	MC8MSLP1B06VS2QES	Farnell 2008743	Pushbutton Switch, On-On, SPDT

Sub-totals:

Totals: