

Bill Of Materials for COSFIANsite

Design Title COSFIANsite
Author
Document Number
Revision
Design Created
Design Last Modified
Total Parts In Design 59

0 Modules

Quantity	References	Value	Stock Code	Description
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Sub-totals:

7 Capacitors

Quantity	References	Value	Stock Code	Description
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5	C1-C2,C4-C6	0.47u	Farnell 2320881	SMD Multilayer Ceramic Capacitor, 1206
2	C3,C7	10u	Farnell 9451692	Electrolytic Capacitor, 10 µF, 16 V, MCRH Radial Leaded, 5 mm

Sub-totals:

23 Resistors

Quantity	References	Value	Stock Code	Description
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1	R1	100K	Farnell 1900114	Through Hole Resistor, 100 kohm, ROX Series, 3 W, ± 5%, Axial Leaded, 350 V
3	R2,R17,R23	6K8	Farnell 1129161	CARBON FILM RESISTOR, 6.8KOHM, 250mW 5%
2	R3,R10	10K	Farnell 9339060	Through Hole Resistor, 10 kohm 250mW, ± 5%
3	R4,R7-R8	10K	Farnell 9339060	Through Hole Resistor, 10 kohm 250mW, ± 5%
12	R5-R6,R12-R16,R18-R22	470	Farnell 1126987	METAL FILM RESISTOR, 470 OHM, 250mW, 1%
1	R9	33K	Farnell 1128023	CARBON FILM RESISTOR, 33KOHM, 250mW, 5%
1	R11	33K	Farnell 1128023	CARBON FILM RESISTOR, 33KOHM, 250mW, 5%

Sub-totals:

5 Integrated Circuits

Quantity	References	Value	Stock Code	Description
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1	U1	MYRRA 47122	Farnell 1825773	AC/DC PCB Mount Power Supply 1 Output, 2.75 W, 5 V, 550 mA
1	U2	PC817A	Farnell 1244544	Optocoupler, Transistor Output, 1 Channel, DIP, 4 Pins, 50 mA
1	U3	LM193	Farnell 2294230	Analogue Comparator, Dual, Differential, 2 Comparators, 300 ns, 2V to 36V, DIP, 8 Pins
1	U4	ATMEGA8	Farnell 9171380	8 KBytes Flash, 1088 Bytes SRAM, 512 Bytes EEPROM, ADC, Analog Comparator, TWI, SPI, 3 Ports, 3 Timers, DIP28
1	U5	LM2937IMP3.3	Farnell 2296021	Linear Voltage Regulator, To 5.5V In, 3.3V And 0.15A Out, SOT-23-5

Sub-totals:

2 Transistors

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

17 Diodes

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Description</u>
2	D1,D16	1N4007	Farnell 9549129	Si; 1.00kV 1.00A 3.00us
1	D2	1N4148	Farnell 9843680	Small Signal Diode, Single, 100 V, 200 mA, 1 V
11	D3,D6-D15	LED-RED	Farnell 1003232	LED, Red, Through Hole, T-1 3/4 (5mm), 2 mA, 1.7 V
1	D4	LED-GREEN	Farnell 2840578	LED, 5MM, GREEN, 8.2CD, 527NM
1	D5	1N4148		Si - 75.0V, 0.300A, 4.00ns in DO35 package
1	D17	1N4007		Si; 1.00kV 1.00A 3.00us

Sub-totals:

5 Miscellaneous

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Description</u>
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	RL1	5V	Farnell 2311438	Relay, Power, SPDT, 5 VDC, 10 A
1	RV1	1K2	Farnell 9354620	Trimmer Potentiometer, 2 kohm, 1 Turns, Through Hole, 500 mW, \pm 10%
1	TR1	HLSR 10P/SP3	Farnell 2664177	Current Transducer, 10A, -25A to 25A

Sub-totals:

Totals: