

Bill Of Materials for COSFI

Design Title COSFIhalls
Author
Document Number
Revision
Design Created
Design Last Modified
Total Parts In Design 46

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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2	C1-C2	22pF	Farnell I2320891	SMD Multilayer Ceramic Capacitor, 22 pF, 50 V, 1206
4	C3-C6	0.47u	Farnell 2320881	SMD Multilayer Ceramic Capacitor, 1206
1	C7	47u	Farnell 2508125	Electrolytic Capacitor, Low ESR, 47 µF, 25 V,

Sub-totals:

20 Resistors

Quantity	References	Value	Stock Code	Description
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1	R1	15K	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
7	R3,R15- R16,R18- R21	10K	Farnell 2434183	Through Hole Resistor, 10 kohm 250mW, ± 5%
1	R4	680R	Farnell 1127004	METAL FILM RESISTOR, 680 OHM, 250mW, 1%
10	R5-R14	1K	Farnell 1083251	Through Hole Resistor, 1 kohm, R Series, 250 mW, ± 0.1%

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	ACS758LCB-050U	2057425	Fully Integrated, Hall Effect-Based Linear Current Sensor with High Voltage Isolation and a Low-Resistance Current Conductor.
1	U4	LM193	Farnell 2294230	Analogue Comparator, Dual, Differential, 2 Comparators, 300 ns, 2V to 36V, DIP, 8 Pins
1	U5	PIC16F628A	Farnell 9760423	PIC16 Microcontroller (2kB code, 224B data, 128B EPROM,DIP18

Sub-totals:

3 Transistors

Quantity	References	Value	Stock Code	Description
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3	Q1-Q3	BC337	Farnell 2453779	Silicon NPN Low Power High Frequency Bipolar Transistor (625mW, 150eC)
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Sub-totals:

7 Diodes

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Description</u>
2	D1,D7	1N4007	Farnell 9549129	Si; 1.00kV 1.00A 3.00us
5	D2-D6	1N4148	Farnell 9843680	Small Signal Diode, Single, 100 V, 200 mA, 1 V

Sub-totals:

4 Miscellaneous

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Description</u>
1	LED1	LT0565SRWK	Farnell 2627649	Red, 4 Digit, 7-Segment Catode Display
1	RV1	33K	Farnell 1227538	Trimmer Potentiometer, 4.7 kohm, 1 Turns, Through Hole
1	S1	Socket DIP18		
1	X1	4MHZ		Crystal, 4 MHz, Through Hole, , 20 p F

Sub-totals:

Totals: