

Bill Of Materials for COSF

Design Title COSFshuntlsite
Author
Document Number
Revision
Design Created
Design Last Modified
Total Parts In Design 54

0 Modules

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

7 Capacitors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Description</u>
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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:

28 Resistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Description</u>
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10	R1,R3,R5,R15,R19-R21,R23-R25	10K	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
1	R4	680R	Farnell 1127004	METAL FILM RESISTOR, 680 OHM, 250mW, 1%
9	R6-R14	1K	Farnell 1083251	Through Hole Resistor, 1 kohm, R Series, 250 mW, ± 0.1%
3	R16,R28-R29	0.003R	Digikey 311-12.7HTR-ND	Constantan Diam=3mm L=40mm
2	R17,R26	10K	Farnell 1083251	Through Hole Resistor, 1 kohm, R Series, 250 mW, ± 0.1%
1	R18	200K	Digikey 311-12.7HTR-ND	RES 12.7 OHM 1/10W 1% 0603 (1608 metric) SMD
1	R22	200K	Farnell 2434183	Through Hole Resistor, 10 kohm 250mW, ± 5%

Sub-totals:

5 Integrated Circuits

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Description</u>
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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	MCP6002	Farnell 1332117	Operational Amplifier, Dual, 2 Amplifier, 1.8V to 6V, DIP, 8 Pins
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

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Stock Code</u>	<u>Description</u>
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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:

5 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
3	D2-D4	1N4148	Farnell 9843680	Small Signal Diode, Single, 100 V, 200 mA, 1 V

Sub-totals:

6 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	3K3	Farnell 1227538	Trimmer Potentiometer, 4.7 kohm, 1 Turns, Through Hole
1	RV2	22k	Farnell 1227538	Trimmer Potentiometer, 4.7 kohm, 1 Turns, Through Hole
1	S1	Socket DIP18	Farnell 2664180	
1	TR1	TRANSFORMER		Ferrite toroidal u=10000 Diam 35mm
1	X1	4MHZ	Farnell 1469647	Crystal, 4 MHz, Through Hole, 11mm x 4.65mm, 50 ppm, 20 pF

Sub-totals:

Totals: