

# Bill Of Materials for Current\_trans\_tester\_sch

## 0 Modules

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>description</u>
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Sub-totals:

## 8 Capacitors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>description</u>
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8	C1-C8	0.47u	CapacitorSMD1206
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Sub-totals:

## 26 Resistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>description</u>
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6	R1-R4,R18-R19	5K	Resistor SMD1206
2	R5,R20	1k	Resistor SMD1206
2	R6,R12	1.0	Through hole resistor 10hm 3W
6	R7-R9,R13-R15	1	Through hole resistor 10W CA5220
4	R10-R11,R16-R17	0.01	Resistor SMD 2512
2	R21,R26	1K	Resistor SMD1206
2	R22-R23	470	Resistor SMD1206
2	R24-R25	4K7	Resistor SMD1206

Sub-totals:

## 11 Integrated Circuits

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>description</u>
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1	U1	MCP4725	12-Bit Digital-to-Analog Converter SOT-23-6
1	U2	LM358N	DUAL OPERATIONAL AMPLIFIER DIP8
4	U3-U4,U6,U8	INA168	High-Side Measurement CURRENT SHUNT MONITOR
2	U5,U7	INA219AID	Bidirectional Current/Power Monitor With I2C Interface
1	U9	PCF8574	I2C LCD MODULE
2	U10-U11	PC817	1-CHANNEL TRANSISTOR OUTPUT TYPE PHOTO COUPLER

Sub-totals:

## 3 Transistors

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>description</u>
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1	Q1	BSS138	NFET Logic level SOT23
2	Q2-Q3	BDX53C	Complementary power Darlington NPN transistors

Sub-totals:

## 9 Miscellaneous

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>description</u>
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1	ARD1	ARDUINO NANO R3	
1	EN1	Optical Encoder	Encoder 14mm
3	J1-J3	TBLOCK-I3	5202-03-N-02
1	LCD2	LCD 20X4 V2	LCD Display
1	RL2	12V	Relay DPDT G2R2 12V
2	SW1-SW2		Tactile Switch B3F-40XX

Sub-totals: