

Bill Of Materials for NANO_PWM_SCH

0 Modules

Quantity	References	Value	description
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Sub-totals:

7 Capacitors

Quantity	References	Value	description
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3	C1,C4,C7	0.47u	CAPACITOR SMD1206
2	C2-C3	47u	Aluminum Electrolytic Capacitor
2	C5-C6	2200u	Aluminum Electrolytic Capacitor 13X20mm ±20%

Sub-totals:

5 Resistors

Quantity	References	Value	description
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1	R1	0.01	POWER RESISTOR 0.01 3W SMD2512
1	R2	2K2	RESISTOR SMD1206
1	R3	470	RESISTOR SMD1206
2	R4-R5	10K	RESISTOR SMD1206

Sub-totals:

3 Integrated Circuits

Quantity	References	Value	description
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1	U1	INA219AID	Voltage end Current sensor I2C
1	U2	7805	Voltage Regulator 5V 1A
1	U3	PC817	Optocoupler DIL04

Sub-totals:

2 Transistors

Quantity	References	Value	description
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2	Q1-Q2	NTP30N06L	Power Mosfet 30 Amps, 60 Volts, Logic Level, N-Channel TO-220
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Sub-totals:

10 Miscellaneous

Quantity	References	Value	description
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1	D1	12TQ045	Schottky Rectifier, 15 A TO-220AC
1	F1	20A	FUSE + HOLDER
1	L1	300uH	TOROIDAL INDUCTOR 311uH 16A SHBC24W-2R1A0311V
1	LAMP1	12V	Automotive lamp 50W
1	LCD2	LCD 16X2	I2C LCD 16X2 MODULE
1	MOD1	Power Supplay +9V 15A	
1	NANO1	ARDUINO NANO V3	
3	SW1-SW3		Tactile Switch

Sub-totals: