

Bill Of Materials for 150W SOLDER SCH

0 Modules AC-DC CONVERTER MRM-05-5 5V 1A

Quantity	References	Value	description
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Sub-totals:

9 Capacitors

Quantity	References	Value	description
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2	C1,C4	470n	Capacitor SMD1206
4	C2,C5,C7-C8	1.0u	Capacitor SMD1206
1	C3	47u	EL. CAPACITOR SMC-B
1	C6	10u	Capacitor SMD1206
1	C9	0.01u	Capacitor SMD1206

Sub-totals:

15 Resistors

Quantity	References	Value	description
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2	R1,R7	10K	Resistor SMD1206
3	R2,R4,R14	1K	Resistor SMD1206
1	R3	120K	Resistor SMD1206
1	R5	47K	Resistor SMD1206
1	R6	180K	RESISTOR 0617/22
1	R8	220	Resistor SMD1206
1	R9	2K2	Resistor SMD2512
2	R10-R11	51K	Resistor SMD2512
3	R12-R13,R15	330	Resistor SMD1206

Sub-totals:

8 Integrated Circuits

Quantity	References	Value	description
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1	U1	AD8552AS	Zero-Drift, Single-Supply, Rail-to-Rail Input/Output Operational Amplifiers
1	U2	PCF8574	I2C LCD Driver
1	U3	PC817X2NIP1B	1-CHANNEL TRANSISTOR OUTPUT TYPE PHOTO COUPLER SO4
1	U4	7411	TRIPLE 3-INPUT AND GATE
1	U5	ACS712ELCTR-05B-T	Hall Effect-Based Linear Current Sensor 5A
1	U7	BTA08-600B	TRIAC 600V 8A TO220
1	U8	MOC3023	6-Pin DIP Random-Phase Optoisolators Triac Driver Output
1	U9	40106	HEX INVERTING CHMIDT TRIGGR

Sub-totals:

0 Transistors

Quantity	References	Value	description
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Sub-totals:

21 Miscellaneous

Quantity	References	Value	description
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1	ARD1	ARDUINO NANO R3	
1	D1	LED-RED	LED5MM 2mA
2	D2,D4	BAT54S	Diode SCHOTTKY SOT23
1	D3	BAT54	Diode SCHOTTKY SOT23
1	F1	10A	FUSE 20MM+HOLDER
5	J1-J5	TBLOCK-M2	5202-03-N-02
1	LCD1	LCD 16X2 V2	LCD DISPLAY I2C
3	RV1-RV3	10k	POTENTIOMETR PTV09
1	RV4	22k	TRIMMER B64W
2	RV5-RV6	100k	TRIMMER B64W
1	SW1		TACTILE SWITCH B3F-10XX
1	T1	ZMPT101B	Current- Type Voltage Transformer
1	TC1	TCK	Termocoupler K-type

Sub-totals: