

# Bill Of Materials for Power source LM723

**Design Title** Power source LM723 memsch

## 7 Capacitors

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">Description</a>
1	C1	100p	CAP CERM 10uF 10% 16V X5R 1206
5	C2,C4-C7	0.47uF	CAP CERM 4700pF 5% 50V NP0 1206
1	C3	1000u	Electrolytic Capacitor, Miniature, 1000 µF, 63 V, ZL Series, ± 20%, Radial Leaded, 16 mm

Sub-totals:

## 18 Resistors

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">Description</a>
1	R1	390	SMD1206 250 mW, ± 1%
1	R2	330	SMD1206 250 mW, ± 1%
1	R3	8k2	SMD1206 250 mW, ± 1%
1	R4	4k7	SMD1206 250 mW, ± 1%
4	R5-R8	0.1	Through Hole Resistor, 0.1 ohm, SQ Series, 5 W, ± 5%, Axial Leaded
1	R9	15K	SMD1206 250 mW, ± 1%
1	R10	24K	SMD1206 250 mW, ± 1%
1	R11	180K	SMD1206 250 mW, ± 1%
1	R12	18K	SMD1206 250 mW, ± 1%
1	R13	2K2	SMD1206 250 mW, ± 1%
2	R14-R15	6K8	SMD1206 250 mW, ± 1%
3	R16-R18	680	SMD1206 250 mW, ± 1%

Sub-totals:

## 6 Integrated Circuits

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">Description</a>
1	U1	LM723	150mA out, Voltage Regulator
1	U2	LM35	Precision Centigrade Temperature Sensor (-55C to 150C)
1	U3	AD822AP	Dual, Single Supply, Precision, Rail-To-Rail, Low Power, FET-Input Operational Amplifier (1.9MHz, 3V/us, 3V-36V)
1	U4	ATMEGA8	8 KBytes Flash, 1088 Bytes SRAM, 512 Bytes EEPROM, ADC, Analog Comparator, TWI, SPI, 3 Ports, 3 Timers, 1 USART
1	U5	IRM-02-5	AC/DC PCB Mount Power Supply (PSU), ITE, 1 Output, 2 W, 5 V, 400 mA
1	U6	RSP-500-27	AC/DC Power Supply (PSU), ITE, 1 Outputs, 502.2 W, 27 V, 18.6 A

Sub-totals:

## 5 Transistors

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">Description</a>
3	Q1,Q3,Q5	2N7002	N-Channel SOT23 Logic Level Enhancement Mode Field Effect Transistor
1	Q2	BD131	Silicon NPN Power Transistor (15W, 150eC)
1	Q4	MJ11030	50 AMPERE COMPLEMENTARY DARLINGTON POWER TRANSISTOR

Sub-totals:

## 4 Diodes

<a href="#">Quantity</a>	<a href="#">References</a>	<a href="#">Value</a>	<a href="#">Description</a>
3	D1-D3	LED-RED	LED 5MM
1	D4	1N4148	Si - 75.0V, 0.300A, 4.00ns in DO35 package

Sub-totals:

## 16 Miscellaneous

<u>Quantity</u>	<u>References</u>	<u>Value</u>	<u>Description</u>
1	FU1	0.1A	Fuse 5x20mm
1	J1	Banana Connector, 4mm, Jack, Panel Mount, 30A RED	Single pin terminal
1	J2	Banana Connector, 4mm, Jack, Panel Mount, 30A BLAC	Single pin terminal
1	LCD2	MC11605A6WK-SPTLY-V2	Alphanumeric LCD, 16 x 1, 5V,
1	RL1	G5V1-5DC	Relay, 5 VDC, SPDT, 1 A, G5V-1 Series, Through Hole
1	RV1	12k	Rotary Potentiometer, Carbon, 12 kohm, 1 Turns, Linear, 50 mW, $\pm$ 20%, PTV09A Series
1	RV2	10k	Trimmer Potentiometer, 10 kohm, 1 Turns, Through Hole
1	RV3	5k	Trimmer Potentiometer, 10 kohm, 1 Turns, Through Hole
1	RV4	5k	Trimmer Potentiometer, 5 kohm, 1 Turns, Through Hole
1	RV5	100K	Trimmer Potentiometer, 100 kohm, 1 Turns, Through Hole
2	RV6-RV7	10k	Rotary Potentiometer, Carbon, 10 kohm, 1 Turns, Linear, 50 mW, $\pm$ 20%, PTV09A Series
2	SW1-SW2	ESB30B102	Pushbutton Switch, Standard, DPDT, 2,5MM
2	SW3-SW4	ESB30B102	Pushbutton Switch, Standard, ESB30 Series, DPDT,

Sub-totals:

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Totals: