

## Parts List 100-200 Watt Linear and Class-C Amplifier

### MOSFET Input

A-=Tayda <https://www.taydaelectronics.com>

1	IRFP250 MOSFET final	A-091
1	.0033uf WIMA 100V	A-1546
4	1uf WIMA 100V	A-4164
1	1500pf 100V	A-699
4	.1uf WIMA 100V	A-1569
1	.001uf 100V	A-4111
1	1N5819 Shockley diode	A-484
1	LM7812	A-207
1	L7815	A-181
1	L78L05	A-176
1	IRF9540 P-ch switch	A-083
1	SUP70101 P-ch switch, is a new much better DC switch, when used for high current switching.	Mouser <b>78-SUP70101EL-GE3</b>
1	10K ohm NTC Thermistor	A-409
1	200 ohm 25 turn bias pot R3	A-590
1	470uf 50 vdc	A-4545
1	3.3K OHM 1W feedback resistor	<b>NOTE</b>

Use non inductive, **no wire wound** resistors. I found the 1-3-watt metal film work good and easy to find. (Amazon, EBay)

3	10 ohm carbon resistors	A-2250
5	T106-2 Toroid	<a href="http://www.kitsandparts.com">http://www.kitsandparts.com</a>

### MOSFET output

3	6.8 nf WIMA 400Vac	Mouser <b>505-FKP16800/1000/5</b>
1	.015 uf WIMA 400Vac	Mouser <b>505-FKP4.015/1000/5</b>
2	2200 pf Mica 500Vac	Mouser <b>598-CD19FD222JO3F</b> or use WIMA, <b>Mouser 505-FKP42200/1000/5</b>
2	1 uf WIMA 250Vac	Mouser <b>505-M101/400/20</b>

### Tuning Cap

1	2000-3600pf Silvered Mica or WIMA 400-500v
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Any combination that give you a good match

### Class A driver

1	Diecast Box style 1590A	A-5163
1	100 ohms, 25T Pot	A-584
2	100 ohm resistors	A-2051
1	470uf 16v	A-4521
1	100 ohm, 25T Pot	A-584
1	10K ohm, 25T Pot	A-586
1	TIP120 ST only	Mouser <b>511-TIP120</b>
1	FT50-43 or FT50-3 Toroid	<a href="http://www.kitsandparts.com">http://www.kitsandparts.com</a>

### Miscellaneous parts

100uf 50v	A-2588
10uf 50v	A-4150
.33uf 100v	A-4167

Most of the parts are inexpensive so order more than you think you will need. Anything can and will happen while building and testing.

I recommend three IRFP250 MOSFET finals; one for building, one for (why did I do that), and one for spare.

The list is not complete with all the components, but anything you need not on the list, should be available on the Tayda site or Mouser.

The capacitors on the MOSFET input are not critical, (WIMA not necessary) but use good quality. On the output use WIMA pulse capacitors.

The 2200pf silver mica across L3 needs to be 2200pf. Up to 2250pf is ok, so mix and match to get the correct value if a single 2200pf is not available. Also 2200 WIMA works just as well.

Mouser **505-FKP42200/1000/5**

<https://www.taydaelectronics.com>

<https://www.mouser.com/>

<https://www.kitsandparts.com>

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