

Shopping List

Value	QTY	Type	Rating	Notes
470R	1	Metal / Carbon Film	1/4W	
1k	4	Metal / Carbon Film	1/4W	
10k	1	Metal / Carbon Film	1/4W	
470k	2	Metal / Carbon Film	1/4W	
1M	1	Metal / Carbon Film	1/4W	
2M2	2	Metal / Carbon Film	1/4W	
10pF	1	MLCC / Ceramic	16v min	2.54mm spacing
33pF	1	MLCC / Ceramic	16v min	2.54mm spacing
100pF	1	MLCC / Ceramic	16v min	2.54mm spacing
1n	2	Film	16v min	
4n7	1	Film	16v min	
100n	2	MLCC / Ceramic	16v min	2.54mm spacing
220n	3	Film	16v min	
1uF	2	Film	16v min	
4u7	1	Electrolytic	16v min	
1n4148	4			
1n34a	1			
2n5458	1	or, J111		
BS170	1			
LM308	1			
100kA	1	PC Mount Right Angle	16mm	
100kC	1	PC Mount Right Angle	16mm	
10kC	1	PC Mount Right Angle, Plastic Shaft	9mm	
1MD	1	PC Mount Right Angle	16mm	Included w/ PCB
W20k [C]	1	PC Mount Right Angle, Plastic Shaft	9mm	Included w/ PCB
W1M [C]	1	PC Mount Right Angle, Plastic Shaft	9mm	Included w/ PCB

2.54mm MLCC

10pF: <http://www.mouser.com/ProductDetail/KEMET/C320C100J1G5TA?qs=sGAEpiMZZMt3KoXD5rJ2N4ZL0L4F3GD0sicU2qoOz3M%3d>

33pF: <http://www.mouser.com/ProductDetail/KEMET/C320C330J1G5TA?qs=sGAEpiMZZMt3KoXD5rJ2N4ZL0L4F3GD0sicU2qoOz3M%3d>

100pF: <http://www.mouser.com/ProductDetail/KEMET/C320C101J5G5TA?qs=sGAEpiMZZMt3KoXD5rJ2N54QGdmtVhtq63%252bt7NgZMo0%3d>

100n: <http://www.mouser.com/Search/ProductDetail.aspx?R=C320C104K5R5TAvirtualkey64600000virtualkey80-C320C104K5R>

You can also just use regular 5mm spaced ceramics or MLCC if you bend the leads inward a bit so don't feel like you have to order the Mouser parts listed above.

100kA, 100kC: <http://smallbear-electronics.mybigcommerce.com/alpha-single-gang-16mm-right-angle-pc-mount/>

10kC: <http://smallbear-electronics.mybigcommerce.com/alpha-single-gang-9mm-right-angle-pc-mount-w-knurled-plastic-shaft/>

UA308: (metal can sub for LM308): <http://smallbear-electronics.mybigcommerce.com/ic-ua308hc/>

2n5458: <http://smallbear-electronics.mybigcommerce.com/transistor-fet-2n5458/>

The 1MD (GAIN) pot is 1MA with 10% tolerance. The 20k (HARD) and 1M (SOFT) pots are W taper with center detent.

Voltages			
9.42v One Spot			
IC	DC	2n5484	DC
1	8.59	D	9.13
2	4.57	S	1.69
3	4.12	G	0
4	0	BS170	
5	~	D	4.57
6	4.57	G	4.57
7	9.13	S	4.39
8	4.66		

Build Pic



Note: On this build I used a wired DC jack (my preferred method) and alternate foot-switch location since I am not using batteries.



Alpha Dog
<http://www.vfepedals.com/>

