

# PEMF 1B (Basic) 0.05 -0.2 Tesla up to 500Hz

by Andrey D

Digikey.com and Ebay.com Parts List (except Air Core Coil)

1. Transformer 167N70 HM4487-ND Hammond Manufacturing 280 Watts 115VAC to 70VAC 4A. \$75.50
2. Diode Bridge 2156-GBPC3510-03-ND \$1.64
3. Capacitor(s) C2, C3,C4 100V 10,000uF ALC 70A103EH100 \$11.36 each
4. Filter Capacitor C1 - 108CKE016MLN 16V 1000uF. \$0.52
5. 12V 3W Zener 1N5927BG \$0.52
6. PWM Pulse Frequency Duty Cycle Square wave Signal Generator Adjustable \$12.00 Ebay.com
7. Optocoupler TPC817A C9G \$0.41
8. N-Chanel Power MosFet IRFP4568PBF-ND \$6.20
9. Diodes D1, D2 200V 75A APT60S20BG \$3.02
10. Push Switch 2368-54-700-R-ND \$1.00
11. Green LED 2460-L513GD-A-ND \$0.25
12. Blue Pulse LED 2460-L513BMBC-15D-ND \$0.82
13. R1 2.2K OHM 2019-CFS1/4CT52R222JTR 1/4 watt \$0.10
14. R2 3K OHM 5% 2368-3W230-ND 3W \$0.36
15. R3 75 Ohms 2019-CF1/4CT52R750JTR-ND 1/4 Watt \$0.10
16. R4 470 Ohms MFR-25FBF52-475R 1/4 Watt \$0.10
17. R5 1k Ohm 2019-CF1/4CT52R102JTR-ND 1/4 Watt \$0.10
18. R6 18k Ohms CFR-25JB-52-18K 1/4 Watt \$0.10
19. Air core coil. I recommend air core coil to be made of 18AWG Magnet wire ID 1" OD 4"-6", thickness 0.5"-0.6" total weight around 2LB