

BRN-ORG-BLK-ORG-

SILVER = 130K

PCB (VIEW FROM GUITAR STRING SIDE)

C2 220uF

INPUT COIL

DC RESISTANCE: 600 OHMS (?) INDUCTANCE:45-50mH WIRE: 46 AWG / 0.04mm DIAMETER

APPROX. 3000 TURNS

OUTPUT COIL

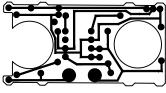
DC RESISTANCE: 16-32 OHMS (?)

INDUCTANCE: 2-3mH

WIRE: 36 AWG / 0.12MM DIAMETER

APPROX. 300 TURNS?

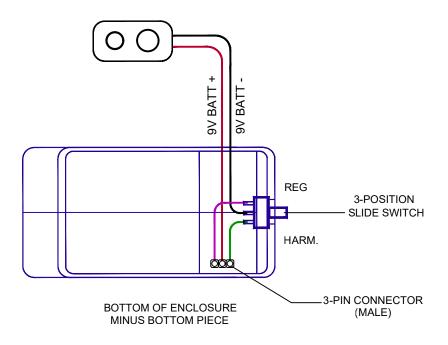
DIAMETER OF BOTH WINDINGS IS APPROX. 9.3mm

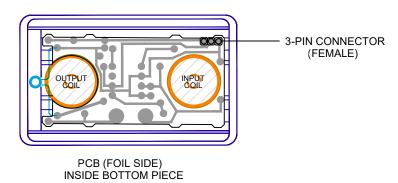


PCB (FOIL SIDE) **ACTUAL SIZE**

Ebow Circuit Board

Device Designed by Gregory S. Heet
Drawn & Verified by Paul Marossy 12/10/2022

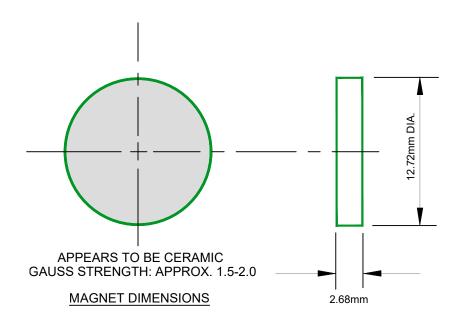


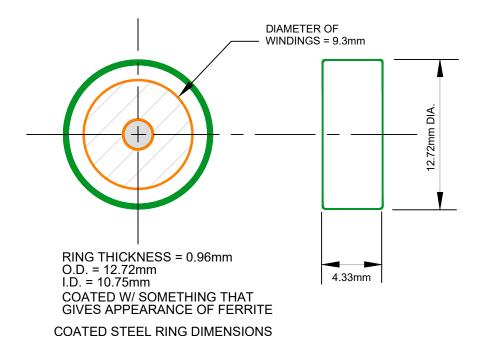


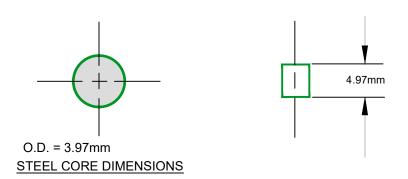
Ebow Switch Wiring

Device Designed by Gregory S. Heet

Drawn & Verified by Paul Marossy 12/10/2022

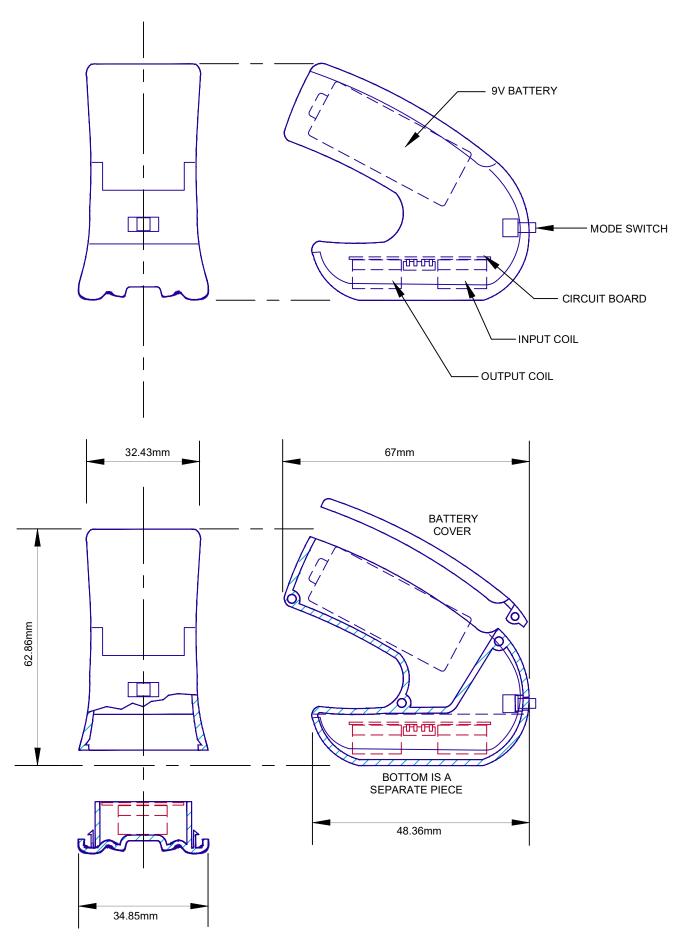






Ebow Magnet & Core Data

Device Designed by Gregory S. Heet Drawn & Verified by Paul Marossy 12/10/2022



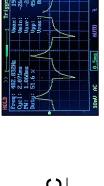
Ebow Plastic Enclosure

Device Designed by Gregory S. Heet Drawn & Verified by Paul Marossy 12/10/2022

3-POSITION SLIDE SWITCH C4 D1 DIODE ALWAYS

+ 4.7µF IN4148

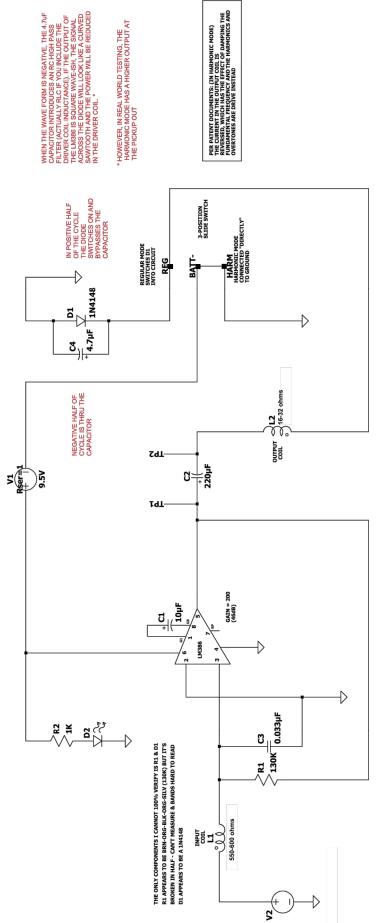
DC CURRENT
TO BATTERY HARM
HARMONIC MODE
CONNECTED "DIRECTLY"
TO GROUND REGULAR MODE SWITCHES DI INTO CIRCUIT REG BAT-₽ AC CURRENT PASSES THRU CAPACITOR COLL \$\frac{12}{\circ}\$ ohms ZqT-C2 + 220µF Td1-2 10µF GAIN = 200 (46dB) LM386 $\stackrel{ extstyle iny extstyle extsty$ \$\frac{1}{\alpha}\frac{1}{\al THE ONLY COMPONENTS I CANNOT 100% VERIEY IS R1 & DI
R1. APPEARS TO BE BREW CHC-GRC-SILV (130K) BUT 1T'S
BROKEN IN HALF - CAUTY PIELSURE & BANDS HARD TO READ
D1 APPEARS TO BE A 1144148 CORL CORL L1



Ebow Schematic

NORMAL MODE

WAVE FORM AT PICKUP OUT

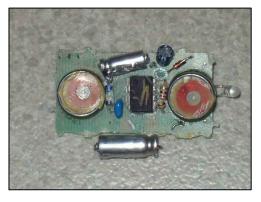


PER PATENT DOCUMENTS: (IN HARMONIC MODE)
THE CURRENT IN THE OUTOUT COLD.)
REVERSED, WHICH HAS THE EFFCT OF DAMPING THE
FUNDAMENTAL REQUENCE AND THE HARMONICS AND
OVERTONES ARE DATIVE INSTEAD

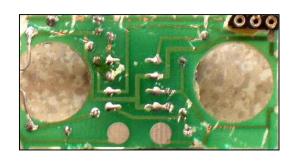
Ebow Schematic HARMONIC MODE



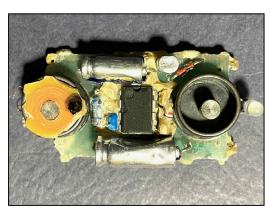
WAVE FORM AT PICKUP OUT



EXAMPLE #1: PCB COMPONENT SIDE



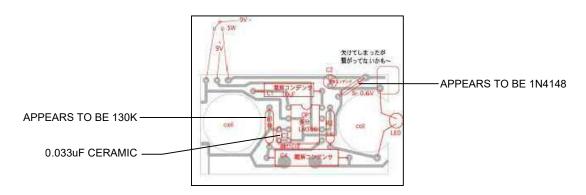
EXAMPLE #1 PCB FOIL SIDE



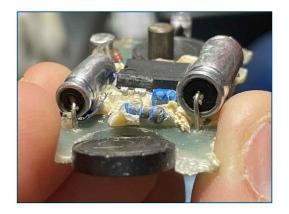
EXAMPLE #2: PCB COMPONENT SIDE



EXAMPLE #2 PCB FOIL SIDE



PCB COMPONENT SIDE



CLOSE UP OF R1. APPEARS TO BE BRN-ORG-BLK-ORG-SLV 130K