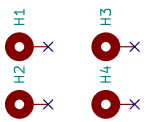
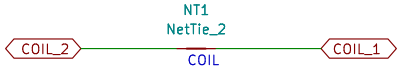
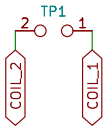
HOLES



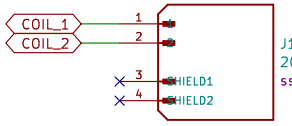
Start/End of Coil Series





DO NOT flip Coil_1 and Coil_2 here, otherwise things will get messed up.

MOLEX CONNECTOR



If Coil_1 (+): Out of Satellite On This Face
If Coil_2 (+): Into Satellite On This Face

This board takes in VBATT (≤8.2V) from port 1 & 2 via the Molex connector and runs the current through the embedded coils in the five copper layers.
2 of the identical PCB boards will be soldered together to generate the desired amount of moment.
This schemetics represents only *1* of the boards.

Per PCB board:
max x coil length (mm) = 78
max y coil length (mm) = 78
min x coil length (mm) = 40
min y coil length (mm) = 40
number of turns n = 49
current per board (A) = 0.06
moment generated per board (A·m2)= 0.055848

Retrofitted by: River Dowdy
Designed by: Eric Liu

Sheet: /
File: Coil_Panel_Z.kicad_sch

Title: Magneton

Size: A4 | Date: 2025-04-07 | **Rev: 1.1**
KiCad E.D.A. 9.0.1 | Id: 1/1