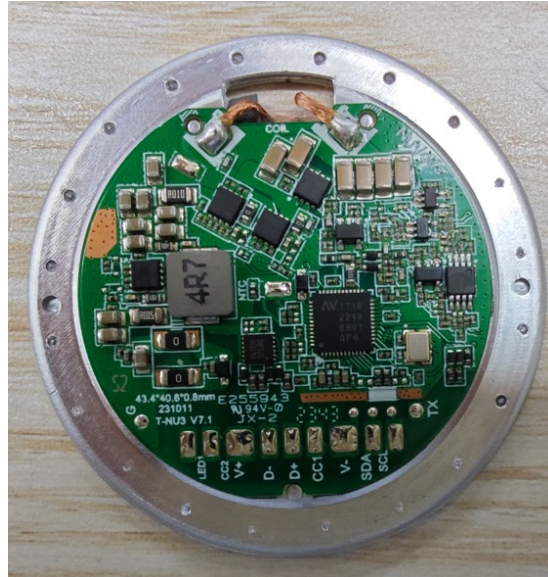


## Antenna Specifications

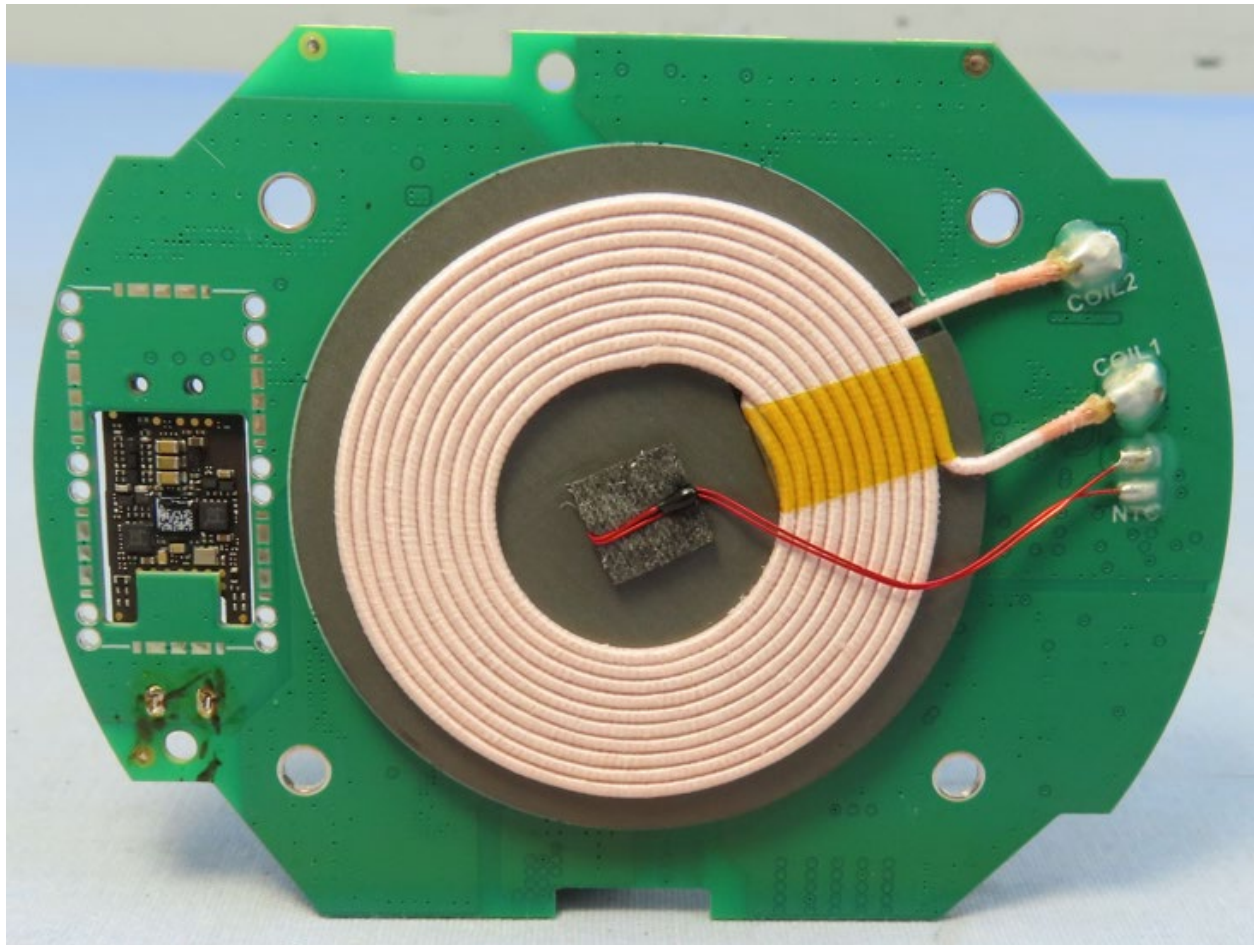
The Nuvolta Qi2 MPP module consists of a coil surrounded by a ring of magnets inside a sealed enclosure.

- Manufacturer: Kimchen
- Model: TNU3MPPCOIL
- Power Rating: 15W (Max)
- Frequencies: 127.7kHz (1W and 7.5W) & 360kHz (15W)
- Number of turns: 11
- Winding Direction: CCW
- Wire Diameter: 0.08\*80P
- Length of any antenna loop element (or diameter of the circular antenna): 39mm
- Coil Area: 11.95cm<sup>2</sup>
- Temperature Rating: 80C
- Antenna pattern: Radial pattern perpendicular to the coil
- Quarter wavelength for 127.7kHz is 587 meters (
- Quarter wavelength for 360KkHz is 208 meters
- Connection type to transmitter: Soldered directly to drive circuit on PCBA.



The Nuvolta Qi BPP coil consists of a coil surrounded by a ring of magnets inside a sealed enclosure.

- Manufacturer: Kimchen
- Model: TB23BKNCA11
- Power Rating: 5W (Max)
- Frequency Range: 111 – 148kHz
- Number of turns: 10
- Winding Direction: CCW
- Wire Diameter: 0.08\*105P
- Length of any antenna loop element (or diameter of the circular antenna): 43mm
- Coil Area: 14.5cm<sup>2</sup>
- Temperature Rating: 80C
- Antenna pattern: Radial pattern perpendicular to the coil
- Quarter wavelength for 127.7kHz is 586 meters
- Connection type to transmitter: Soldered directly to drive circuit on PCBA.



The Apple Watch charger uses a coil surrounded by a ring of magnets inside a sealed enclosure.

- Manufacturer: Apple
- Model: C962
- Power Rating: 5W (Max)
- Frequencies: 326.5kHz & 1.778MHz
- Number of turns: 9
- Length of any antenna loop element (or diameter of the circular antenna): 21.34mm
- Coil Area: 3.57cm<sup>2</sup>
- Wire Gauge: 15AWG
- Temperature Rating: 77C

