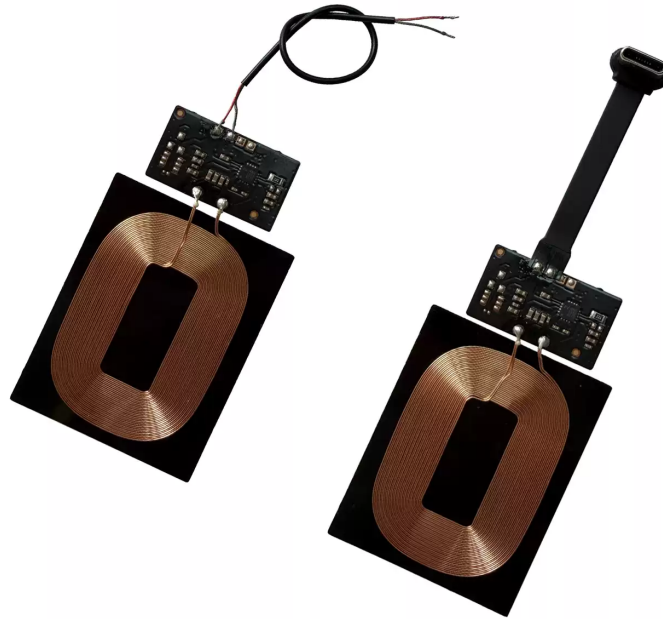


5W Flexible Wireless Charging Receiver Module

Compact receiving-side wireless power module with flexible, trim-to-fit magnetic shielding and three RX coil geometries

5W WIRELESS CHARGING RECEIVER



5 W wireless receiver optimized for space-constrained embedded products

A miniature 25 x 14 mm receiver controller with selectable RX coils. The source specifically shows that the coil assembly can fold behind the PCB and that the flexible magnetic shielding sheet can be trimmed for mechanical integration.

Source package contains five product images and no webpage/HTML file. All technical values below are taken from visible source annotations; values not supplied remain TBD.

1. Functional Description

The 5W Flexible Wireless Charging Receiver Module is a receiving-side wireless-power assembly for compact embedded products. It combines a miniature receiver/control PCB with an external inductive RX coil and magnetic shielding. Three coil geometries are shown, allowing the mechanical footprint to be selected for the host product. The source also demonstrates a foldable/stackable configuration in which the coil can be positioned behind the PCB, reducing the required planar installation area.

2. Key Features

Rated wireless power	5 W, explicitly stated in the source product title.
Compact controller PCB	25 x 14 x 1 mm.
Three RX coil options	Round, small rectangular and large rectangular.
Default configuration	Large rectangular coil is identified as the default.
Flexible integration	Source shows the RX coil can be folded behind the control board.
Trim-to-fit shielding	Magnetic shielding sheet is described as flexible and may be trimmed as required.
Non-polarized RX coil	Receiver-coil leads do not require polarity orientation.
Controller IC	NU1680C main controller IC identified in the source.

3. Electrical Characteristics

Wireless received power	5 W product class.
Receiver controller	NU1680C.
RX coil connection	Two-wire, non-polarized.
DC output polarity	Positive and negative output points are identified on the PCB.
DC output voltage	TBD - not stated in the supplied images.
Maximum output current	TBD.
Operating frequency	TBD.
Efficiency / protection	TBD.

4. Mechanical Specifications

PCB dimensions	25 x 14 x 1 mm.
Dimensioned RX coil	29 x 41 x 0.3 mm.
Dimensioned magnetic shield	36 x 46 x 0.3 mm.
Round coil option	26 mm diameter x 0.6 mm.
Small rectangular coil	30 x 23 x 0.8 mm.
Large rectangular coil	46 x 36 x 0.6 mm.
Foldable arrangement	Coil may be folded behind the PCB, as demonstrated in the source.
Magnetic shield	Flexible; may be trimmed to fit the installation.

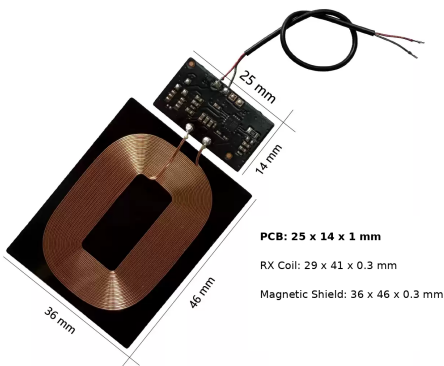
5. Interface / Connection Summary

RX coil pads	Two receiver-coil connections; no polarity requirement.
DC output	Positive and negative load/output leads.
Output cable	Bare-wire output cable shown; exact length TBD.
Host integration	PCB, coil and shielding can be arranged to suit available product volume.

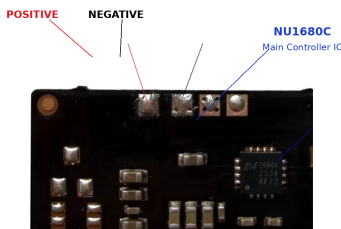
6. Typical Applications

Compact rechargeable electronics, handheld devices, embedded sensors, smart accessories, sealed enclosures, custom charging docks, medical/consumer electronics and other low-power products where the receiver PCB and coil must fit into a restricted mechanical envelope.

DIMENSIONS



RECEIVER CONTROL BOARD



RX COIL CONNECTION

Coil leads are non-polarized
Three coil sizes available

Default: large rectangular coil.
Round or small rectangular coil available by request.

7. Coil Options and Flexible Integration



The source provides three receiver-coil geometries and demonstrates that the coil may be folded behind the PCB. This is useful where the product has limited flat surface area but sufficient stacked volume. The flexible magnetic shielding can also be trimmed to accommodate the enclosure, while maintaining appropriate magnetic isolation around the receiver coil.

8. Integration Considerations

Coil geometry, transmitter alignment, charging distance, nearby conductive materials and magnetic shielding can affect received power and temperature. Any folded configuration should be validated in the final enclosure to ensure that the PCB, coil leads and shielding are not mechanically overstressed. The RX coil itself is non-polarized, but the DC output to the host load is polarized and must follow the positive/negative PCB markings.

9. Production-Release Data Required

Before controlled release, confirm DC output voltage/current, supported transmitter protocol, operating frequency, efficiency versus alignment and gap, coil inductance/resistance for each option, minimum bend radius, allowable fold geometry, shielding material/specification, cable length, protection thresholds, operating/storage temperature, environmental limits and applicable EMC/safety certifications.

10. Product Classification

Primary category: Wireless Charging Receiver

Product type: 5W Flexible Embedded Wireless Power Receiver Module

Controller: NU1680C

PCB size: 25 x 14 x 1 mm

RX coil options: Round / Small Rectangular / Large Rectangular

Mechanical feature: Foldable coil arrangement + trim-to-fit flexible magnetic shielding

Document status: Preliminary English datasheet derived solely from the five supplied product images. No webpage file was present, and unsupported electrical output values have not been introduced.