Patent claims:

1. Contactless data transmission device (50) which comprises:
   - an electrically insulating carrier (1),
   - a circuit element arranged on the carrier (1), which circuit element comprises a continuous antenna conductor track (2) in the form of at least one spiral winding (4, 5, 6) and respectively one terminal contact (15, 16) at the ends thereof, and
   - an electronic component (3) electrically connected with the circuit element with at least two contact points (11, 12), wherein the electronic component (3) is placed in a mounting region (10) above the at least one spiral winding (4, 5, 6) and wherein the at least two contact points (11, 12) of the electronic component (3) are electrically connected with a respective terminal contact (15, 16) of the antenna conductor track (2),
   - wherein at least one spiral winding (4, 5, 6) is branched outside the mounting region (10) between two respective branching points (7', 7"; 8', 8"; 9', 9") into at least two spiral winding branches (4', 4"; 5', 5"; 6', 6"),

   characterized in that the circuit element furthermore comprises a capacitive circuit element and that the capacitive circuit element is formed by at least one blind conductor track (25, 26) which is respectively electrically connected with a terminal contact (15, 16) of the antenna conductor track (2).
2. The contactless data transmission device (50) according to Claim 1, characterized in that the at least one spiral winding (4, 5, 6) runs through between at least two contact points (11, 12) of the electronic component (3).
3. The contactless data transmission device (50) according to any one of the preceding claims, characterized in that the spiral winding branches (4', 4"; 5', 5"; 6', 6") of the antenna conductor track (2) are formed to run with a constant width (b).
4. The contactless data transmission device (50) according to any one of the preceding claims, characterized in that the spiral winding branches (4', 4"; 5', 5"; 6', 6") of the antenna conductor track (2) and the areas of the spiral windings (4, 5, 6) running in the mounting region (10) are equally wide.

5. The contactless data transmission device (50) according to any one of the preceding claims, characterized in that the electronic component (3) is formed by an unhoused semiconductor chip.

6. The contactless data transmission device (50) according to Claim 5, characterized in that the semiconductor chip is mounted on the antenna conductor track (2) according to the flip-chip technique.

7. The contactless data transmission device (50) according to any one of the preceding claims, characterized in that at least two of the at least two spiral winding branches (4', 4"; 5', 5"; 6', 6") of at least one spiral winding (4, 5, 6) are connected together between the branching points (7', 7"; 8', 8"; 9', 9") additionally by respectively at least one electrical connecting element (35', 35", 35'", 35""; 36', 36", 36'", 36"").

8. The contactless data transmission device (50) according to any one of the preceding claims, characterized in that the antenna conductor track (2) is made from a conductive paste or a conductive varnish.

9. The contactless data transmission device (50) according to any one of the preceding claims, characterized in that intermediate spaces between the spiral winding branches (4', 4"; 5', 5"; 6', 6") are filled with a dielectric substance having a dielectric constant which differs from that of the carrier (1).

10. A valuable and/or security document comprising at least two document layers connected together through lamination, wherein one of the layers is formed by a contactless data transmission device (50) according to any one of the Claims 1 – 9.

11. A method for the manufacture of the contactless data transmission device (50) according to any one of the Claims 1 – 9, comprising the following method steps:

i) providing a carrier (1),

ii) printing a spiral-shaped circuit element onto the carrier (1), wherein the circuit element comprises an antenna conductor track (2) including terminal contacts (15, 16) of the antenna conductor track (2) and a capacitive circuit element, wherein the capacitive circuit element is formed by at least one blind conductor track (25, 26) which is respectively electrically connected with a terminal contact (15, 16) of the antenna conductor track (2),

iii) placing an electronic component (3) above the antenna conductor track (2) so that contact points (11, 12) of the electronic component (3) lie opposite the terminal contacts (15, 16), and contacting the electronic component (3) with the antenna conductor track (2).