



TI-682 subminiature bug. Shown enlarged in a 1mm grid.



Xray of a TI-682.

Vločka V

Country of origin: Czechoslovakia

Remarks

Vločka V (also known as TI-682) was a subminiature wireless bug originating from Czechoslovakia, recognized as the smallest wireless bug of its era. Imported by the Stasi in 1975, it was identified under the covert number 31211-613. Operating in Band IV (360-400MHz), it came from the production line tuned to a fixed frequency, which was marked, along with other specifications, on an individual data sheet. The Band IV receiver normally used was a type 31210 (see Chapter 123).

It was believed that the transmitter module used a similar construction technology as the GDR type 31216/17/18, which exhibited relatively good frequency stability. For this reason, the Vločka V was suitable for carrying on the body but was also used concealed inside a skirting board. It utilized a 4500Ω Sennheiser type MM 301 dynamic microphone or a similar type, such as the MM 26.

DATA SUMMARY

Design/Manufacturer: Czechoslovakia.

Year of Introduction: Imported 1975 in the GDR where it was known under cover number 31211-613.

Purpose: Measure B (Room interception) wireless bug, used for covert overhearing.

Transmitter: Single stage free running oscillator.

Frequency: Band IV (360-400MHz).

Modulation: FM.

Microphone: Sennheiser MM 301 or similar.

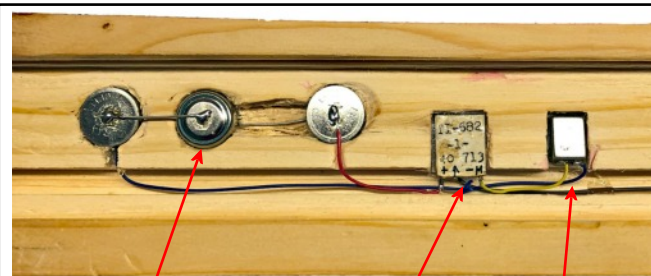
RF output: 2mW.

Aerial: ¼ wavelength, about 25cm flex wire.

Power Supply: 1-7V DC derived from miniature cells.

Size (mm): Height 3, width 10, length 12.

Weight: 500 mg.

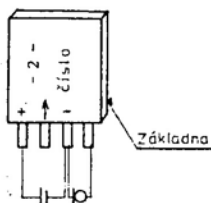


3 batteries in series. Bug TI-682. Microphone.

Replica of an example of a TI-682 bug hidden under a wooden skirting board. (Courtesy Detlev Vreisleben).

Vysílač VLOČKA
 ev. číslo TI-682-2-46796
 Použitelnost v napětíovém rozsahu 1 V až 7 V.
 Měřené hodnoty při U = 3 V
 I = 3,7 mA ΔI = 120 kHz/100uV 1kHz
 f = 378,8 MHz P = 2 mW/50 ohm
 Délka antény je 25 cm.
 Mikrofon = MM 301 - 4500 ohm Sennheiser.

PŘÍSNĚ
 TAJNĚ



POZOR

Přístroj montujeme základnou k tělesu.

Poznámky:

Velikost modulárního zdvihu lze snížit zařazením vhodného odporu do přívodu mikrofonu.
 Vliv antény na stabilitu vysílače, lze snížit připojením antény přes kondenzátor asi 2pF.

Data sheet with individual specifications of a TI-682.



The GDR receiver type 31215 was typically associated with the reception of Band IV wireless bugs.

References

- With many thanks to Detlev Vreisleben, DC7KG, who kindly provided documents and photographs for this chapter.
- OTS Document: Gerät 'Vločka', Vorläufige Beschreibung und Bedienungsanleitung, Berlin, August 1975.
- 'Bugs', telephone and room audio surveillance systems of the Stasi, Louis Meulstee and Detlev Vreisleben, June 2019, isbn 978 90 829965 0 0, Lulu Inc.