

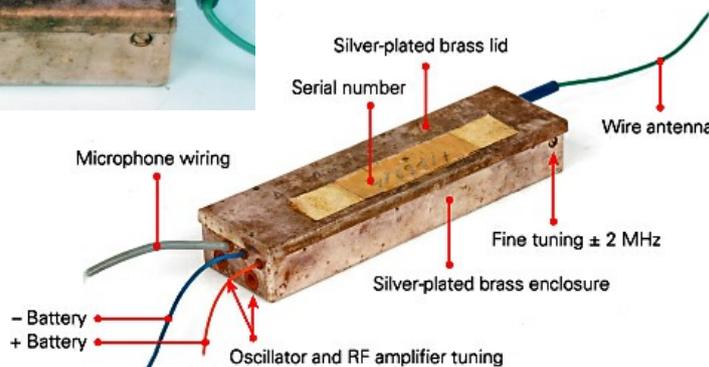
# 31211 series (GDR bugs II) Country of origin: GDR



31211-5

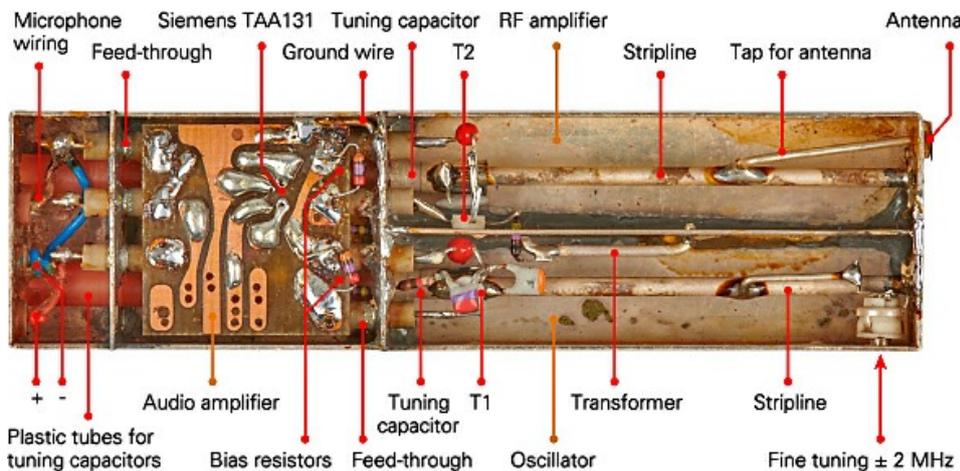
## DATA SUMMARY

**Organisation:** MfS, Abt. 26, GDR.  
**Manufacturer:** PGH Funkmechanik, Freiberg, GDR.  
**Year of Introduction:** Probably mid 1960s.  
**Purpose:** Wireless bug for covert overhearing.  
**Transmitter:**  
**Circuit details:** Free running oscillator, RF power amplifier; wide band FM, minimum deviation  $\pm 25\text{kHz}$ .  
**Frequency coverage:** 360-400MHz. (Band IV).  
**RF output:** 12.5mW at 9V in 50 $\Omega$ .  
**Aerial:**  $\frac{1}{4}$  wave wire. (21cm length of flex wire)  
**Range:** 400m  
**Power Supply:** 5.5-12V; Derived from an external battery or AC mains power unit.  
**Dimensions (cm):** Height 1.5, Length 9.7, Width 2.6.  
**Weight:** 73 grams.

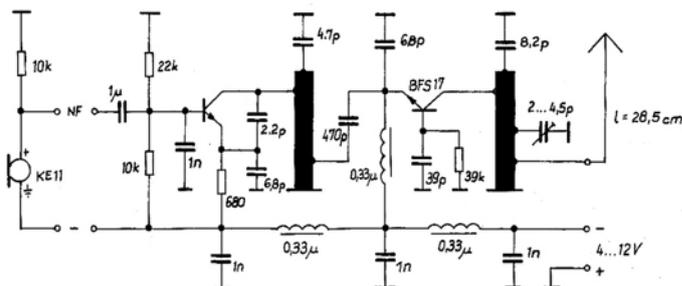


## REMARKS

The 31211-5 was a second generation UHF FM wireless bug operating in Band IV (360-400MHz). The transmitter required an external dynamic microphone, e.g. a Sennheiser MM-21. Though only information on the /5 and /6 of the 31211 could be retrieved, other variations of this series of Band IV bugs are noted such as the 31221, 311217-100 with integrated SVM, 31211-613 (Vlocka) and 31211-614 (KOS-8) both believed imported from Czechoslovakia and Bulgaria. The associated receiver was probably a 31210 or 31220. (Chapters 123 and 130).



Top view of the 31211-5 bug showing audio board (left), oscillator compartment (bottom right) and RF amplifier compartment (top right). (Circuit next page.)



Circuit diagram of believed to be a prototype of the 31211-5 bug using an electret microphone.

## References:

- With thanks to Detlev Vreisleben, DC7KG, Germany for taking excellent photographs and scans, and providing further technical and historical information.
- Beschreibung und Bedienungsanleitung für das Gerät 1211-6. n.d. (Description and user instructions for equipment 1211-6.)
- Photographs 31211-5 and further detailed information courtesy Cryptomuseum, Eindhoven, Holland.
- See museum website [www.cryptomuseum.com](http://www.cryptomuseum.com).

