





electronics



Era of electronic valve technology

The electronic valve made the enhancement of electronic signals possible. Transmissions via long distances were made possible (telephone sets, broadcasting, and directional radio).

Connection technology: wiring via printed circuit boards "Through Hole Technology".

1904 electronic tube by John Ambrose Fleming 1923 first broadcasting station, 'Telefunken Berlin'

1926 Foundation of the Dralowid-plant, Berlin since 1934 Dralowid-plant Teltow after 1945 WBN and EBT production of electronic components

1930 all-electric television set, Manfred von Ardenne, Berlin

1938 first programmable digital computer Zl, Konrad Zuse Berlin (museum of technology Berlin)

Range of application for electronic valve: broadcasting and televisions sets, transmission systems, medical technology, industrial electronic, telephone sets, valve amplifier technology

Era of semiconductor technology

Semiconductor components do have smaller measurements and a lower energy demand. For the production of semiconductors cleanroom conditions are necessary.

Connection technology: head cards equipping via the "Surface Mounted Technology" (SMT).



1947 first transistor, Bell-Laboratory, USA 1952 start of the production and development of semiconductor components in the plant for components of intelligence technology, Teltow (WBN)

1960 foundation of the institute for semiconductor technology of the GDR in Teltow1965 production of semiconductor components in the rectifier substation, Stahnsdorf

Range of application of the semiconductor components:

broadcasting and television technology, household electronic, medical technology, industrial technology, telephone sets, computer technology, traffic engineering, drive technology (power electronics)

Era of micro electronics

Micro electronics/micro computer technology:

For the production of micro electronic circuits complicated production processes in cleanroom conditions are used. Degree of integration: since the 80s it is spoken of "Very Large Scale Integration" (VLSI, more than 100.000

transistors/circuit)





Instruments, USA 1985 components for micro electronic, chip and foil resistors, surface wave filters in Teltow (EBW), power semiconductors in the rectifier substation. Stahnsdorf 2012 successor companies like microtech electronic. Vectron International. powertron and Epcos represent the micro electronic in our region

1971 first micro processor, Texas

Range of application of the micro electronic: in every field of the economy and the every day life. The micro technology revolutionised the communication in particular.