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Around 1964 Development of micromodule

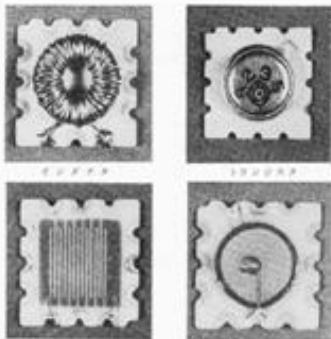
~ Packaging ~

A micromodule is a component in which resistors, inductances, and transistor elements were mounted on a ceramic substrate, which were then connected to the metallized portion formed on the side surface of the ceramic substrate by gold wires. It was used for radio equipment to be attached to a cap and so on.

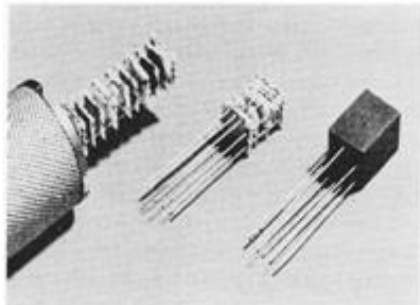
The transistor element was a metal alloy type germanium transistor, and the solder material is used for the bonding of lead wires, etc.



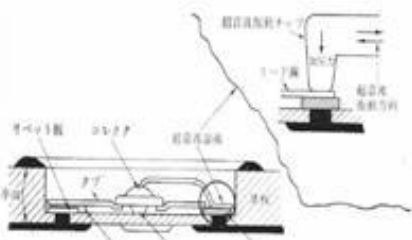
Micro module product substrate



Various module products



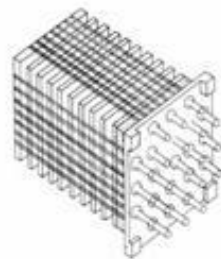
Assembly of Micro module



Structure of alloy joint type transistor



Structure of pan cake type transistor



Structure of internal connection of micro module after improvement