

ENGINEERING DESIGN

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Date: 7 July, 2022

Let us discuss about wireless earphones. The idea of wireless earphones emerged when wired earphones became an hassle to work with and wanted an alternative. The solution was a wireless earphone that would work with a bluetooth connection. This was a very feasible solution for the problem in hand as it made the wired earphones old technology and wireless one being the future.

The design for a wireless earphone includes metals such as copper, ferrite and graphene, the rubbers are made using silicone, neodymium magnets are used as they produce higher sensitivity in less power, gel caps and with addition to all this, a battery.

The hardware is very different from the wired earphones. It comes with a case which helps the earbuds to charge. The gel caps and the design built helps them to stay in the users ear fixed.

The pros of wireless earbuds:

- 1) They are designed in a way so that they don't fall from the ears.
- 2) No wires are required to connect it to any device, just bluetooth required.
- 3) Once charged, they work for longer periods of time and give a hassle free experience.
- 4) As they are getting more and more popular, many brands are coming up with efficient designs and cheaper products.

The cons:

- 1) Batteries are required to be charged for time to time so it can't be used if not charged.
- 2) Easy to misplace as they are small entities.